

# Xigris™

## Drotrecogin alfa (activated)

### DESCRIPTION

Xigris™ (drotrecogin alfa (activated)) is a recombinant form of human Activated Protein C. An established human cell line possessing the complementary DNA for the inactive human Protein C zymogen secretes the protein into the fermentation medium. Fermentation is carried out in a nutrient medium containing the antibiotic geneticin sulfate. Geneticin sulfate is not detectable in the final product. Human Protein C is enzymatically activated by cleavage with thrombin and subsequently purified.

Drotrecogin alfa (activated) is a serine protease with the same amino acid sequence as human plasma-derived Activated Protein C. Drotrecogin alfa (activated) is a glycoprotein of approximately 55 kilodalton molecular weight, consisting of a heavy chain and a light chain linked by a disulfide bond. Drotrecogin alfa (activated) and human plasma-derived Activated Protein C have the same sites of glycosylation, although some differences in the glycosylation structures exist.

Xigris is supplied as a sterile, lyophilized, white to off-white powder for intravenous infusion. The 5 and 20 mg vials of Xigris contain 5.3 mg and 20.8 mg of drotrecogin alfa (activated), respectively. The 5 and 20 mg vials of Xigris also contain 40.3 and 158.1 mg of sodium chloride, 10.9 and 42.9 mg of sodium citrate, and 31.8 and 124.9 mg of sucrose, respectively.

### CLINICAL PHARMACOLOGY

#### General Pharmacology

Activated Protein C exerts an antithrombotic effect by inhibiting Factors Va and VIIIa. *In vitro* data indicate that Activated Protein C has indirect profibrinolytic activity through its ability to inhibit plasminogen activator inhibitor-1 (PAI-1) and limiting generation of activated thrombin-activatable-fibrinolysis-inhibitor. Additionally, *in vitro* data indicate that Activated Protein C may exert an anti-inflammatory effect by inhibiting human tumor necrosis factor production by monocytes, by blocking leukocyte adhesion to selectins, and by limiting the thrombin-induced inflammatory responses within the microvascular endothelium.

#### Pharmacodynamics

The specific mechanisms by which Xigris exerts its effect on survival in patients with severe sepsis are not completely understood. In patients with severe sepsis, Xigris infusions of 48 or 96 hours produced dose dependent declines in D-dimer and IL-6. Compared to placebo, Xigris treated patients experienced more rapid declines in D-dimer, PAI-1 levels, thrombin-antithrombin levels, prothrombin F1.2, IL-6, more rapid increases in protein C and antithrombin levels, and normalization of plasminogen. As assessed by infusion duration, the maximum observed pharmacodynamic effect of drotrecogin alfa (activated) on D-dimer levels occurred at the end of 96 hours of infusion for the 24 µg/kg/hr treatment group.

## 39 Human Pharmacokinetics

40 Xigris and endogenous Activated Protein C are inactivated by endogenous plasma protease  
41 inhibitors. Plasma concentrations of endogenous Activated Protein C in healthy subjects and  
42 patients with severe sepsis are usually below detection limits.

43 In patients with severe sepsis, Xigris infusions of 12 µg/kg/hr to 30 µg/kg/hr rapidly produce  
44 steady state concentrations ( $C_{ss}$ ) that are proportional to infusion rates. In the phase 3 trial (*see*  
45 **CLINICAL STUDIES**), the median clearance of Xigris was 40 L/hr (interquartile range of 27 to  
46 52 L/hr). The median  $C_{ss}$  of 45 ng/mL (interquartile range of 35 to 62 ng/mL) was attained within  
47 2 hours after starting infusion. In the majority of patients, plasma concentrations of Xigris fell  
48 below the assay's quantitation limit of 10 ng/mL within 2 hours after stopping infusion. Plasma  
49 clearance of Xigris in patients with severe sepsis is approximately 50% higher than that in  
50 healthy subjects.

## 51 Special Populations

52 In adult patients with severe sepsis, small differences were detected in the plasma clearance of  
53 Xigris with regard to age, gender, hepatic dysfunction or renal dysfunction. Dose adjustment is  
54 not required based on these factors alone or in combination (*see* **PRECAUTIONS**).

55 *End stage renal disease*—Patients with end stage renal disease requiring chronic renal  
56 replacement therapy were excluded from the Phase 3 study. In patients without sepsis  
57 undergoing hemodialysis (n=6), plasma clearance (mean ± SD) of Xigris administered on non-  
58 dialysis days was 30 ± 8 L/hr. Plasma clearance of Xigris was 23 ± 4 L/hr in patients without  
59 sepsis undergoing peritoneal dialysis (n=5). These clearance rates did not meaningfully differ  
60 from those in normal healthy subjects (28 ± 9 L/hr) (n=190).

61 *Pediatrics*—Safety and efficacy have not been established in pediatric patients with severe  
62 sepsis (*see* **INDICATIONS AND USAGE**), therefore no dosage recommendation can be made.  
63 The pharmacokinetics of a dose of 24 µg/kg/hr of Xigris appear to be similar in pediatric and  
64 adult patients with severe sepsis.

65 *Drug-Drug Interactions*—Formal drug interactions studies have not been conducted.

## 66 CLINICAL STUDIES

67 The efficacy of Xigris was studied in an international, multi-center, randomized, double-blind,  
68 placebo-controlled trial (PROWESS) of 1690 patients with severe sepsis.<sup>1</sup> Entry criteria included  
69 a systemic inflammatory response presumed due to infection and at least one associated acute  
70 organ dysfunction. Acute organ dysfunction was defined as one of the following: cardiovascular  
71 dysfunction (shock, hypotension, or the need for vasopressor support despite adequate fluid  
72 resuscitation); respiratory dysfunction (relative hypoxemia ( $PaO_2/FiO_2$  ratio <250)); renal  
73 dysfunction (oliguria despite adequate fluid resuscitation); thrombocytopenia (platelet count  
74 < 80,000/mm<sup>3</sup> or 50% decrease from the highest value the previous 3 days); or metabolic  
75 acidosis with elevated lactic acid concentrations. Patients received a 96 hour infusion of Xigris at  
76 24 µg/kg/hr or placebo starting within 48 hours after the onset of the first sepsis induced organ  
77 dysfunction. Exclusion criteria encompassed patients at high risk for bleeding (*see*  
78 **CONTRAINDICATIONS** and **WARNINGS**), patients who were not expected to survive for 28

79 days due to a pre-existing, non-sepsis related medical condition, HIV positive patients whose  
 80 most recent CD<sub>4</sub> count was  $\leq 50/\text{mm}^3$ , patients on chronic dialysis, and patients who had  
 81 undergone bone marrow, lung, liver, pancreas or small bowel transplantation.

82 The primary efficacy endpoint was all-cause mortality assessed 28 days after the start of study  
 83 drug administration. Prospectively defined subsets for mortality analyses included groups  
 84 defined by APACHE II Score<sup>2</sup> (a score designed to assess risk of mortality based on acute  
 85 physiology and chronic health evaluation, see <http://www.sfar.org/scores2/scores2.html>), protein  
 86 C activity, and the number of acute organ dysfunctions at baseline. The APACHE II score was  
 87 calculated from physiologic and laboratory data obtained within the 24-hour period immediately  
 88 preceding the start of study drug administration irrespective of the preceding length of stay in the  
 89 Intensive Care Unit.

90 The study was terminated after a planned interim analysis due to significantly lower mortality  
 91 in patients on Xigris than in patients on placebo (210/850, 25% vs. 259/840, 31%  $p=0.005$ , see  
 92 Table 1).

93 Baseline APACHE II score, as measured in PROWESS, was correlated with risk of death;  
 94 among patients receiving placebo, those with the lowest APACHE II scores had a 12% mortality  
 95 rate, while those in the 2nd, 3rd, and 4th APACHE quartiles had mortality rates of 26%, 36%  
 96 and 49%, respectively. The observed mortality difference between Xigris and placebo was  
 97 limited to the half of patients with higher risk of death, i.e., APACHE II score  $\geq 25$ , the 3<sup>rd</sup> and 4<sup>th</sup>  
 98 quartile APACHE II scores (Table 1). The efficacy of Xigris has not been established in patients  
 99 with lower risk of death, e.g., APACHE II score  $< 25$ .

100 **Table 1: 28-Day All-Cause Mortality for All Patients and for**  
 101 **Subgroups Defined by APACHE II Score<sup>a</sup>**

	Xigris Total N <sup>b</sup> N <sup>c</sup> (%)	Placebo Total N N (%)	Absolute Mortality Difference (%)	Relative Risk (RR)	95% CI for RR
<b>Overall</b>	850 210 (25)	840 259 (31)	-6	0.81	0.70, 0.93
APACHE II quartile (score)					
<b>1<sup>st</sup> + 2<sup>nd</sup> (3-24)</b>	436 82 (19)	437 83 (19)	0	0.99	0.75, 1.30
<b>3<sup>rd</sup> + 4<sup>th</sup> (25-53)</b>	414 128 (31)	403 176 (44)	-13	0.71	0.59, 0.85

102 <sup>a</sup>For more information on calculating the APACHE II Score,  
 103 see: <http://www.sfar.org/scores2/scores2.html>

104 <sup>b</sup>Total N = Total number of patients in group

105 <sup>c</sup>N = Number of deaths in group

106 Of measures used, the APACHE II score was most effective in classifying patients by risk of  
 107 death and by likelihood of benefit from Xigris, but other important indicators of risk or severity  
 108 also supported an association between likelihood of Xigris benefit and risk of death. Absolute  
 109 reductions in mortality of 2%, 5%, 8% and 11% with Xigris were observed for patients with 1, 2,  
 110 3, and 4 or more organ dysfunctions, respectively. Similarly, each of the three major components  
 111 of the APACHE II score (acute physiology score, chronic health score, age score) identified a  
 112 higher risk population with larger mortality differences associated with treatment. That is, the

113 reduction in mortality was greater in patients with more severe physiologic disturbances, in  
114 patients with serious underlying disease predating sepsis, and in older patients.

115 Treatment-associated reductions in mortality were observed in patients with normal protein C  
116 levels and those with low protein C levels. No substantial differences in Xigris treatment effects  
117 were observed in subgroups defined by gender, ethnic origin, or infectious agent.

### 118 **INDICATIONS AND USAGE**

119 Xigris is indicated for the reduction of mortality in adult patients with severe sepsis (sepsis  
120 associated with acute organ dysfunction) who have a high risk of death (e.g., as determined by  
121 APACHE II, *see* **CLINICAL STUDIES**).

122 Efficacy has not been established in adult patients with severe sepsis and lower risk of death.  
123 Safety and efficacy have not been established in pediatric patients with severe sepsis.

### 124 **CONTRAINDICATIONS**

125 Xigris increases the risk of bleeding. Xigris is contraindicated in patients with the following  
126 clinical situations in which bleeding could be associated with a high risk of death or significant  
127 morbidity:

- 128 • Active internal bleeding
- 129 • Recent (within 3 months) hemorrhagic stroke
- 130 • Recent (within 2 months) intracranial or intraspinal surgery, or severe head trauma
- 131 • Trauma with an increased risk of life-threatening bleeding
- 132 • Presence of an epidural catheter
- 133 • Intracranial neoplasm or mass lesion or evidence of cerebral herniation

134 Xigris is contraindicated in patients with known hypersensitivity to drotrecogin alfa (activated)  
135 or any component of this product.

### 136 **WARNINGS**

137 Bleeding is the most common serious adverse effect associated with Xigris therapy. Each  
138 patient being considered for therapy with Xigris should be carefully evaluated and anticipated  
139 benefits weighed against potential risks associated with therapy.

140 Certain conditions, many of which led to exclusion from the phase 3 trial, are likely to increase  
141 the risk of bleeding with Xigris therapy. Therefore, for patients with severe sepsis who have one  
142 or more of the following conditions, the increased risk of bleeding should be carefully  
143 considered when deciding whether to use Xigris therapy:

- 144 • Concurrent therapeutic heparin ( $\geq 15$  units/kg/hr)
- 145 • Platelet count  $< 30,000 \times 10^6/L$ , even if the platelet count is increased after transfusions
- 146 • Prothrombin time-INR  $> 3.0$
- 147 • Recent (within 6 weeks) gastrointestinal bleeding
- 148 • Recent administration (within 3 days) of thrombolytic therapy
- 149 • Recent administration (within 7 days) of oral anticoagulants or glycoprotein IIb/IIIa  
150 inhibitors

- 151 • Recent administration (within 7 days) of aspirin >650 mg per day or other platelet  
152 inhibitors
- 153 • Recent (within 3 months) ischemic stroke (*see* **CONTRAINDICATIONS**)
- 154 • Intracranial arteriovenous malformation or aneurysm
- 155 • Known bleeding diathesis
- 156 • Chronic severe hepatic disease
- 157 • Any other condition in which bleeding constitutes a significant hazard or would be  
158 particularly difficult to manage because of its location

159 Should clinically important bleeding occur, immediately stop the infusion of Xigris. Continued  
160 use of other agents affecting the coagulation system should be carefully assessed. Once adequate  
161 hemostasis has been achieved, continued use of Xigris may be reconsidered.

162 Xigris should be discontinued 2 hours prior to undergoing an invasive surgical procedure or  
163 procedures with an inherent risk of bleeding. Once adequate hemostasis has been achieved,  
164 initiation of Xigris may be reconsidered 12 hours after major invasive procedures or surgery or  
165 restarted immediately after uncomplicated less invasive procedures.

## 166 **PRECAUTIONS**

### 167 **Laboratory Tests**

168 Most patients with severe sepsis have a coagulopathy that is commonly associated with  
169 prolongation of the activated partial thromboplastin time (APTT) and the prothrombin time (PT).  
170 Xigris may variably prolong the APTT. Therefore, the APTT cannot be reliably used to assess  
171 the status of the coagulopathy during Xigris infusion. Xigris has minimal effect on the PT and  
172 the PT can be used to monitor the status of the coagulopathy in these patients.

### 173 **Immunogenicity**

174 As with all therapeutic proteins, there is a potential for immunogenicity. The incidence of  
175 antibody development in patients receiving Xigris has not been adequately determined, as the  
176 assay sensitivity is inadequate to reliably detect all potential antibody responses. One patient in  
177 the phase 2 trial developed antibodies to Xigris without clinical sequelae. One patient in the  
178 phase 3 trial who developed antibodies to Xigris developed superficial and deep vein thrombi  
179 during the study, and died of multi-organ failure on day 36 post-treatment but the relationship of  
180 this event to antibody is not clear.

181 Xigris has not been readministered to patients with severe sepsis.

### 182 **Drug Interactions**

183 Drug interactions with Xigris have not been studied in patients with severe sepsis. Caution  
184 should be employed when Xigris is used with other drugs that affect hemostasis (*see* **CLINICAL**  
185 **PHARMACOLOGY, WARNINGS**). Approximately 2/3 of the patients in the phase 3 study  
186 received prophylactic low dose heparin. Concomitant use of prophylactic low dose heparin did  
187 not appear to affect safety. Its effect on the efficacy of Xigris has not been evaluated in a  
188 randomized controlled clinical trial.

### 189 **Drug/Laboratory Test Interaction**

190 Because Xigris may affect the APTT assay, Xigris present in plasma samples may interfere  
191 with one-stage coagulation assays based on the APTT (such as factor VIII, IX, and XI assays).  
192 This interference may result in an apparent factor concentration that is lower than the true  
193 concentration. Xigris present in plasma samples does not interfere with one-stage factor assays  
194 based on the PT (such as factor II, V, VII, and X assays).

### 195 **Carcinogenesis, Mutagenesis, Impairment of Fertility**

196 Long-term studies in animals to evaluate potential carcinogenicity of Xigris have not been  
197 performed.

198 Xigris was not mutagenic in an *in vivo* micronucleus study in mice or in an *in vitro*  
199 chromosomal aberration study in human peripheral blood lymphocytes with or without rat liver  
200 metabolic activation.

201 The potential of Xigris to impair fertility has not been evaluated in male or female animals.

### 202 **Pregnancy Category C**

203 Animal reproductive studies have not been conducted with Xigris. It is not known whether  
204 Xigris can cause fetal harm when administered to a pregnant woman or can affect reproduction  
205 capacity. Xigris should be given to pregnant women only if clearly needed.

### 206 **Nursing Mothers**

207 It is not known whether Xigris is excreted in human milk or absorbed systemically after  
208 ingestion. Because many drugs are excreted in human milk, and because of the potential for  
209 adverse effects on the nursing infant, a decision should be made whether to discontinue nursing  
210 or discontinue the drug, taking into account the importance of the drug to the mother.

### 211 **Pediatric Use**

212 The safety and effectiveness of Xigris have not been established in the age group newborn (38  
213 weeks gestational age) to 18 years. The efficacy of Xigris in adult patients with severe sepsis and  
214 high risk of death cannot be extrapolated to pediatric patients with severe sepsis.

### 215 **Geriatric Use**

216 In clinical studies evaluating 1821 patients with severe sepsis, approximately 50% of the  
217 patients were 65 years or older. No overall differences in safety or effectiveness were observed  
218 between these patients and younger patients.

## 219 **ADVERSE REACTIONS**

### 220 **Bleeding**

221 Bleeding is the most common adverse reaction associated with Xigris.

222 In the phase 3 study, serious bleeding events were observed during the 28-day study period in  
223 3.5% of Xigris treated and 2.0% of placebo treated patients, respectively. The difference in  
224 serious bleeding between Xigris and placebo occurred primarily during the infusion period and is  
225 shown in Table 2.<sup>1</sup> Serious bleeding events were defined as any intracranial hemorrhage, any

226 life-threatening bleed, any bleeding event requiring the administration of  $\geq 3$  units of packed red  
 227 blood cells per day for 2 consecutive days, or any bleeding event assessed as a serious adverse  
 228 event.

229 **Table 2: Number of Patients Experiencing a Serious Bleeding Event by Site of**  
 230 **Hemorrhage During the Study Drug Infusion Period<sup>a</sup> in PROWESS<sup>1</sup>**

	<b>Xigris</b> <b>N=850</b>	<b>Placebo</b> <b>N=840</b>
<b>Total</b>	<b>20 (2.4%)</b>	<b>8 (1.0%)</b>
Site of Hemorrhage		
Gastrointestinal	5	4
Intra-abdominal	2	3
Intra-thoracic	4	0
Retroperitoneal	3	0
Intracranial	2	0
Genitourinary	2	0
Skin/soft tissue	1	0
Other <sup>b</sup>	1	1

231 <sup>a</sup>Study drug infusion period is defined as the date of initiation of study drug to the date  
 232 of study drug discontinuation plus the next calendar day.

233 <sup>b</sup>Patients requiring the administration of  $\geq 3$  units of packed red blood cells per day for 2  
 234 consecutive days without an identified site of bleeding.

235 In PROWESS, 2 cases of intracranial hemorrhage (ICH) occurred during the infusion period  
 236 for Xigris treated patients and no cases were reported in the placebo patients. The incidence of  
 237 ICH during the 28-day study period was 0.2% for Xigris treated patients and 0.1% for placebo  
 238 treated patients. ICH has been reported in patients receiving Xigris in non-placebo controlled  
 239 trials with an incidence of approximately 1% during the infusion period. The risk of ICH may be  
 240 increased in patients with risk factors for bleeding such as severe coagulopathy and severe  
 241 thrombocytopenia (*see* **WARNINGS**).

242 In PROWESS, 25% of the Xigris-treated patients and 18% of the placebo-treated patients  
 243 experienced at least one bleeding event during the 28-day study period. In both treatment groups,  
 244 the majority of bleeding events were ecchymoses or gastrointestinal tract bleeding.

#### 245 **Other Adverse Reactions**

246 Patients administered Xigris as treatment for severe sepsis experience many events which are  
 247 potential sequelae of severe sepsis and may or may not be attributable to Xigris therapy. In  
 248 clinical trials, there were no types of non-bleeding adverse events suggesting a causal association  
 249 with Xigris.

#### 250 **OVERDOSAGE**

251 There is no known antidote for Xigris. In case of overdose, immediately stop the infusion and  
 252 monitor closely for hemorrhagic complications (*see* **Human Pharmacokinetics**).

## DOSAGE AND ADMINISTRATION

253  
254 Xigris should be administered intravenously at an infusion rate of 24 µg/kg/hr for a total  
255 duration of infusion of 96 hours. Dose adjustment based on clinical or laboratory parameters is  
256 not recommended (*see* **PRECAUTIONS**).

257 If the infusion is interrupted, Xigris should be restarted at the 24 µg/kg/hr infusion rate. Dose  
258 escalation or bolus doses of Xigris are not recommended.

259 In the event of clinically important bleeding, immediately stop the infusion (*see*  
260 **WARNINGS**).

### **Preparation and administration instructions: Use aseptic technique.**

- 261 1. Use appropriate aseptic technique during the preparation of Xigris for intravenous  
262 administration.  
263
- 264 2. Calculate the dose and the number of Xigris vials needed. Each Xigris vial contains 5 mg  
265 or 20 mg of Xigris. The vial contains an excess of Xigris to facilitate delivery of the label  
266 amount.
- 267 3. Prior to administration, 5 mg vials must be reconstituted with 2.5 mL Sterile Water for  
268 Injection, USP, and 20 mg vials of Xigris must be reconstituted with 10 mL of Sterile  
269 Water for Injection, USP. The resulting concentration of the solution is approximately  
270 2 mg/mL of Xigris. Slowly add the Sterile Water for Injection, USP to the vial and avoid  
271 inverting or shaking the vial. Gently swirl each vial until the powder is completely  
272 dissolved.
- 273 4. The solution of reconstituted Xigris must be further diluted with sterile 0.9% Sodium  
274 Chloride Injection. Slowly withdraw the appropriate amount of reconstituted Xigris  
275 solution from the vial. Add the reconstituted Xigris into a prepared infusion bag of sterile  
276 0.9% Sodium Chloride Injection. When adding the Xigris into the infusion bag, direct the  
277 stream to the side of the bag to minimize the agitation of the solution. Gently invert the  
278 infusion bag to obtain a homogeneous solution. Do not transport the infusion bag  
279 between locations using mechanical delivery systems.
- 280 5. Because Xigris contains no antibacterial preservatives, the intravenous solution should be  
281 prepared immediately upon reconstitution of the Xigris in the vial(s). If the vial of  
282 reconstituted Xigris is not used immediately, it may be held at controlled room  
283 temperature 15° to 30°C (59° to 86°F), but must be used within 3 hours. Intravenous  
284 administration must be completed within 12 hours after the intravenous solution is  
285 prepared.
- 286 6. Parenteral drug products should be inspected visually for particulate matter and  
287 discoloration prior to administration.
- 288 7. When using an intravenous infusion pump to administer the drug, the solution of  
289 reconstituted Xigris is typically diluted into an infusion bag containing sterile  
290 0.9% Sodium Chloride Injection to a final concentration of between 100 µg/mL and  
291 200 µg/mL.

- 292 8. When using a syringe pump to administer the drug, the solution of reconstituted Xigris is  
 293 typically diluted with sterile 0.9% Sodium Chloride Injection to a final concentration of  
 294 between 100 µg/mL and 1000 µg/mL. When administering Xigris at low concentrations  
 295 (less than approximately 200 µg/mL) at low flow rates (less than approximately  
 296 5 mL/hr), the infusion set must be primed for approximately 15 minutes at a flow rate of  
 297 approximately 5 mL/hr.
- 298 9. Xigris should be administered via a dedicated intravenous line or a dedicated lumen of a  
 299 multilumen central venous catheter. The ONLY other solutions that can be administered  
 300 through the same line are 0.9% Sodium Chloride Injection, Lactated Ringer's Injection,  
 301 Dextrose, or Dextrose and Saline mixtures.
- 302 10. Avoid exposing Xigris solutions to heat and/or direct sunlight. No incompatibilities have  
 303 been observed between Xigris and glass infusion bottles or infusion bags and syringes  
 304 made of polyvinylchloride, polyethylene, polypropylene, or polyolefin.

### 305 HOW SUPPLIED

306 Xigris is available in 5 mg and 20 mg single-use vials containing sterile, preservative-free,  
 307 lyophilized drotrecogin alfa (activated).

#### 308 Vials:

309 5 mg Vials  
 310 NDC 0002-7559-01  
 311 20 mg Vials  
 312 NDC 0002-7561-01

313 Xigris should be stored in a refrigerator 2° to 8°C (36° to 46°F). Do not freeze. Protect  
 314 unconstituted vials of Xigris from light. Retain in carton until time of use. Do not use beyond  
 315 the expiration date stamped on the vial.

### 316 REFERENCES

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321 Literature issued November 2001

322 **Eli Lilly and Company**  
 323 **Indianapolis, IN 46285, USA**

324 **www.lilly.com**

325  
 326  
 327 PV 3420 AMP

PRINTED IN USA

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