

## Product Information

**Product ID** E7657  
**CAS No.** 33419-42-0  
**Chemical Name** 9-[(4,6-O-Ethylidene-β-D-glucopyranosyl)oxy]-5,8,- 8a,9-tetrahydro-5-(4-hydroxy-3,5-dimethoxyphenyl)-furo[3',4':6,7]naphtho[2,3-d]-1,3-dioxol-6(5aH)-one  
**Synonym** EPEG, Lastet, Vepesid

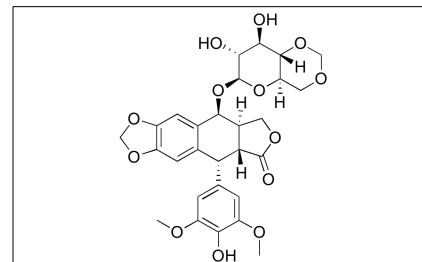
**Formula** C<sub>29</sub>H<sub>32</sub>O<sub>13</sub>  
**Formula Wt.** 588.56  
**Melting Point** 236-251 °C, 265-270 °C  
**Purity** ≥98%  
**Solubility** Slightly soluble in ethanol or chloroform. Practically insoluble in water.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Etoposide is a derivative of epipodophyllotoxin that acts as an anticancer chemotherapeutic and immunomodulatory compound, inhibiting DNA topoisomerase II and preventing DNA repair. In breast cancer cells, etoposide increases phosphorylation of p38 MAPK and decreases expression of fragile histidin triad (FHIT), causing cell death. In hepatoma cells, etoposide induces mixed modes of programmed cell death, including both autophagy and apoptosis. In leukemia cells, etoposide increases transcription of PKCδ. Etoposide is also used to treat hemophagocytic lymphohistiocytosis (HLH), in which it decreases release of pro-inflammatory cytokines and inhibits activated T cells, increasing survival rates.

Semi-synthetic material. Epipodophyllotoxin from podophyllum versipelle Hance. TEST!!!!!!



## Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
E7657	25 mg	\$51.10
E7657	100 mg	\$94.80
E7657	500 mg	\$248.20

**References** Johnson TS, Terrell CE, Millen SH, et al. Etoposide selectively ablates activated T cells to control the immunoregulatory disorder hemophagocytic lymphohistiocytosis. *J Immunol.* 2014 Jan 1;192(1):84-91. PMID: 24259502.

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Mizumoto K, Rothman RJ, Farber JL. Programmed cell death (apoptosis) of mouse fibroblasts is induced by the topoisomerase II inhibitor etoposide. *Mol Pharmacol.* 1994 Nov;46(5):890-5. PMID: 7969076.

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Marcon L, Zhang X, Hales BF, et al. Effects of chemotherapeutic agents for testicular cancer on rat spermatogonial stem/progenitor cells. *J Androl.* 2011 Jul-Aug;32(4):432-443. PMID: 21088230.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.