



LKT Laboratories, Inc.

Etoposide

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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 C₂₉H₃₂O₁₃

Formula Wt. 588.56

Melting Point 236-251 °C, 265-270 °C

Purity ≥98%

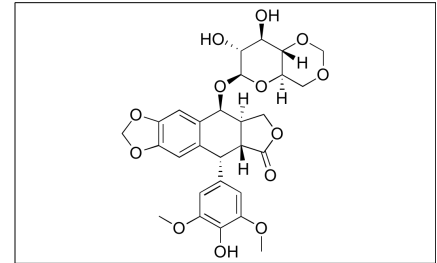
Solubility Slightly soluble in ethanol or chloroform. Practically insoluble in water.

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 CHK2 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.



Bulk quantities available upon request

Product ID	Size
E7657	25 mg
E7657	100 mg
E7657	500 mg

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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Nissen NI, Dombernowsky P, Hansen HH, et al. The epipodophyllotoxin derivatives VM-26 and VP-16-213, 1976-1979, a review. *Recent Results Cancer Res.* 1980;74:98-106. PMID: 7003663.

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.