

Product Name: Etoposide

Catalog No.: 1226

Batch No.: 7

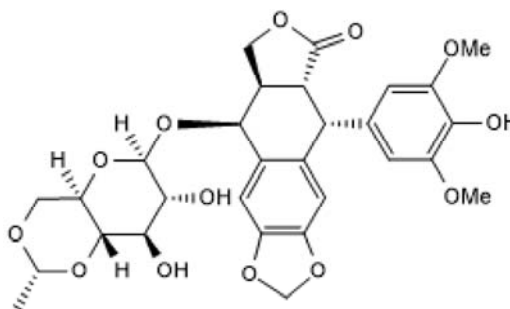
CAS Number: 33419-42-0

EC Number: 251-509-1

IUPAC Name: [5*R*-[5 α ,5 α β ,8 α ,9 β (*R*^{*})]-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-(5*aH*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₃₂O₁₃·½H₂O
Batch Molecular Weight: 597.57
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -105.8 (Concentration = 0.6, Solvent = Chloroform)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.29	5.57	
Found	58.07	5.59	

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Description:

Etoposide is a DNA topoisomerase II inhibitor (IC₅₀ = 59.2 μ M). Anticancer. Also enhances adeno-associated virus (AAV) transduction of HeLa cells.

Physical and Chemical Properties:

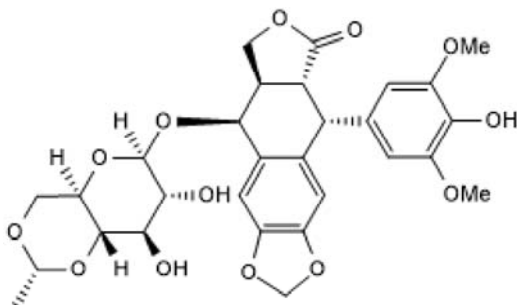
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Batch Molecular Weight: 597.57

Physical Appearance: White solid

Minimum Purity: \geq 99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Nicolson *et al* (2016) Identification and validation of small molecules that enhance recombinant adeno-associated virus transduction following high-throughput screens. *J.Virol.* **90** 7019. PMID: 27147738 .

Hande *et al* (1998) Etoposide: four decades of development of a topoisomerase II inhibitor. *Eur.J.Cancer* **34** 1514. PMID: 9893622.

Burden *et al* (1996) Topoisomerase II.etoposide interactions direct the formation of drug-induced enzyme-DNA cleavage complexes. *J.Biol.Chem.* **271** 29238. PMID: 8910583.

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