Product Name: **Etoposide** **Catalog No.: 1226** **Batch No.: 5**

CAS Number: 33419-42-0 EC Number: 251-509-1

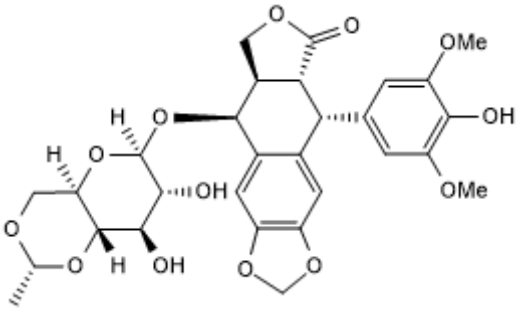
IUPAC Name: [5*R*-[5α,5aβ,8aα,9β(*R**)]]-9-[(4,6-*O*-Ethylidene-β-D-glucopyranosyl)oxy]-5,8,8a,9-tetrahydro-5-(4-hydroxy-3,5-dimethoxyphenyl)furo[3',4':6,7]naphtho[2,3-*d*]-1,3-dioxol-6-(5a*H*)-one

Description:
Topoisomerase II inhibitor (IC_{50} = 59.2 µM).

Physical and Chemical Properties:
Batch Molecular Formula: $C_{29}H_{32}O_{13}.H_2O$
Batch Molecular Weight: 606.58
Physical Appearance: White solid

Minimum Purity: >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:

Terada *et al* (1993) Antitumor agents.3.Synthesis and biological activity of 4β-alkyl derivatives containing hydroxy, amino, and amido groups of 4'-O-demethyl-4-desoxypodophyllotoxin as antitumor agents. J.Med.Chem. ***36*** 1689. PMID: 8389875.

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

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