

Certificate of Analysis

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Product Name: Etoposide

CAS Number: IUPAC Name:

Catalog No.: 1226 Batch No.: 4

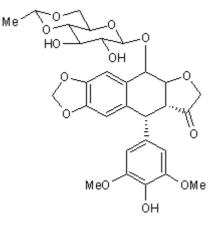
EC Number: 251-509-1

e: [5*R*-[5α,5aβ,8aα,9β(*R**)]]-9-[(4,6-0-Ethylidene-α-D-glucopyransoyl)oxy]-5,8,8a,9-tetrahydro-5-(4-hydroxy-3,5dimethoxyphenyl)furo[3',4':6,7]naptho[2,3-*d*]-1,3-dioxol-6-(5a*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

33419-42-0

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C₂₉H₃₂O₁₃.H₂O 606.58 White solid DMSO to 100 mM Store at RT



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Optical Rotation: Microanalysis: Shows 99.5% purity Consistent with structure Consistent with structure $[\alpha]_D = -117$ (Concentration = 0.6, Solvent = Chloroform) Carbon Hydrogen Nitrogen Theoretical 57.42 5.65 Found 57.36 5.59

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use





Product Information

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[5R-[5α,5aβ,8aα,9β(R*)]]-9-[(4,6-0-Ethylidene-α-D-glucopyransoyl)oxy]-5,8,8a,9-tetrahydro-5-(4-hydroxy-3,5dimethoxyphenyl)furo[3',4':6,7]naptho[2,3-d]-1,3-dioxol-6-(5aH)-one

Description:

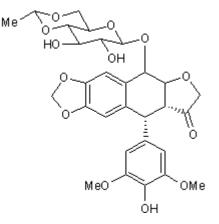
Topoisomerase II inhibitor (IC₅₀ = 59.2 µM).

Physical and Chemical Properties:

Batch Molecular Formula: C29H32O13.H2O Batch Molecular Weight: 606.58 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Useage 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.

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