

Product Data Sheet

Product Name: F-14512

Cat. No.: GC72786

Chemical Properties

Cas. No. 866874-63-7

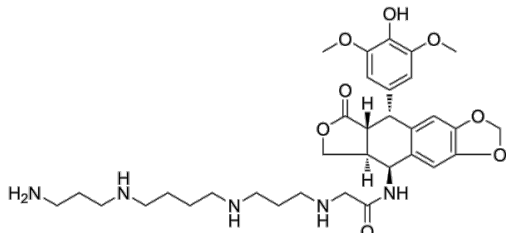
Formula $C_{33}H_{47}N_5O_8$ M.Wt 641.75

Solubility DMSO : 125 mg/mL (194.78 mM; Storage 4°C, protect from light
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

F-14512 is a targeted cytotoxic compound that utilizes the polyamine transport system (PTS) to

Caution: Product has not been fully validated for medical applications. For research use only.

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selectively deliver polyamine-containing drugs to cancer cells. F-14512 combines an epipodophyllotoxin core that targets topoisomerase II with a spermine group that acts as a cell delivery vehicle, with improved selectivity for tumor cells. F-14512 exhibits significant cytotoxicity against cells with high PTS activity and demonstrates high potency in multiple human cell lines (median IC₅₀=0.18 μ M). In the MX1 breast tumor xenograft model, F-14512 exhibits potent antitumor activity.

References:

[1]. F-14512, a Potent Antitumor Agent Targeting Topoisomerase II Vectored into Cancer Cells via the Polyamine Transport System

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