

F-14512

## Chemical Properties

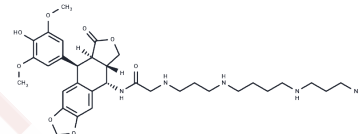
CAS No. : 866874-63-7

Formula: C<sub>33</sub>H<sub>47</sub>N<sub>5</sub>O<sub>8</sub>

Molecular Weight: 641.76

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	F-14512 (free base) is a topoisomerase II inhibitor for the study of acute myeloid leukemia.
Targets(IC50)	Others,Topoisomerase
In vitro	The IC50 value of F-14512 in Kelly cells measured using the MTS assay was 0.076 $\mu$ M, showing that F-14512 has significantly enhanced anti-tumor activity; [3]
In vivo	In animal experiments, F-14512 was administered to mice with neuroblastoma at a dose of 1.25 mg/kg three times a week for two consecutive weeks, showing significant and long-lasting anti-tumor effects; [3]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5582 mL	7.7911 mL	15.5821 mL
5 mM	0.3116 mL	1.5582 mL	3.1164 mL
10 mM	0.1558 mL	0.7791 mL	1.5582 mL
50 mM	0.0312 mL	0.1558 mL	0.3116 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Tieryn D, et al. Phase I Clinical Pharmacology Study of F14512, a New Polyamine-Vectorized Anticancer Drug, in Naturally Occurring Canine Lymphoma. Clin Cancer Res. 2015 Dec 1;21(23):5314-23.

Mouawad F, et al. The antitumor drug F14512 enhances cisplatin and ionizing radiation effects in head and neck squamous carcinoma cell lines. Oral Oncol. 2014 Feb;50(2):113-9.

Leblond P, et al. Activity of the polyamine-vectorized anti-cancer drug F14512 against pediatric glioma and neuroblastoma cell lines. Invest New Drugs. 2014 Oct;32(5):883-92.

Thibault B, et al. F14512, a polyamine-vectorized inhibitor of topoisomerase II, exhibits a marked anti-tumor activity in ovarian cancer. Cancer Lett. 2016 Jan 1;370(1):10-8.

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Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481