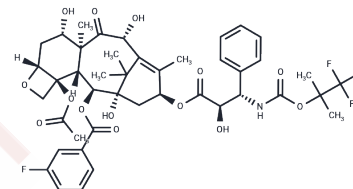


4F-Docetaxel

Chemical Properties

CAS No. :	912272-09-4
Formula:	C43H49F4NO14
Molecular Weight:	879.84
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	4F-Docetaxel (4FDT) is a fluorinated derivative of docetaxel that exhibits significant antitumor activity against hepatocellular carcinoma (HCC) and is suitable for research on liver cancer.
Targets(IC50)	Others
In vitro	4F-Docetaxel exhibits cytotoxic effects against multiple tumor cell lines, with IC ₅₀ values of 0.049 μM (95-D), 0.070 μM (SKOV3), 0.958 μM (HCT-116), 0.021 μM (HepG2), 0.022 μM (Bel-7402), 0.014 μM (SMMC-7721), 0.011 μM (SGC-7901), 0.043 μM (MDA-MB-231), 0.017 μM (A2780), 0.012 μM (KB), 0.006 μM (HL-60), 6.6 μM (U2OS)[1].
In vivo	In vivo studies, 4F-Docetaxel effectively reduced the proliferation rate of H22 and HepG2 liver cancer cells. Acute toxicity test showed that 4F-Docetaxel had fewer side effects (about 16% less than docetaxel) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1366 mL	5.6829 mL	11.3657 mL
5 mM	0.2273 mL	1.1366 mL	2.2731 mL
10 mM	0.1137 mL	0.5683 mL	1.1366 mL
50 mM	0.0227 mL	0.1137 mL	0.2273 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

Hao YP, et al. Novel fluorinated docetaxel analog for anti-hepatoma: Molecular docking and biological evaluation. Eur J Pharm Sci. 2016 Jun 10;88:274-81.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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