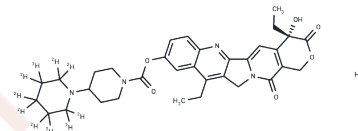


## Irinotecan-D10 hydrochloride

### Chemical Properties

CAS No. :	718612-62-5
Formula:	C33H29D10ClN4O6
Molecular Weight:	633.20
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	Irinotecan-D10 hydrochloride is a deuterated compound of Irinotecan Hydrochloride. Irinotecan Hydrochloride (T0486L) has a CAS number of 100286-90-6. Irinotecan Hydrochloride (T0486L) is the hydrochloride salt of a semisynthetic derivative of camptothecin. Irinotecan, a prodrug, is converted to a biologically active metabolite 7-ethyl-10-hydroxy-camptothecin (SN-38) by a carboxylesterase-converting enzyme. One thousand-fold more potent than its parent compound irinotecan, SN-38 inhibits topoisomerase I activity by stabilizing the cleavable complex between topoisomerase I and DNA, resulting in DNA breaks that inhibit DNA replication and trigger apoptotic cell death. Because ongoing DNA synthesis is necessary for irinotecan to exert its cytotoxic effects, it is classified as an S-phase-specific agent.
Targets(IC50)	Autophagy,Topoisomerase

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5793 mL	7.8964 mL	15.7928 mL
5 mM	0.3159 mL	1.5793 mL	3.1586 mL
10 mM	0.1579 mL	0.7896 mL	1.5793 mL
50 mM	0.0316 mL	0.1579 mL	0.3159 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.

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