

Dolastatin 10 trifluoroacetate

Chemical Properties

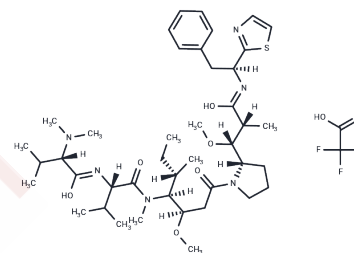
CAS No. :

Formula: C44H69F3N6O8S

Molecular Weight: 899.11

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	Dolastatin 10 trifluoroacetate is a potent antimitotic polypeptide isolated from a marine animal and is developed as a potential antitumor agent. Dolastatin 10 is found to have an activity to inhibit tubulin polymerization (IC ₅₀ : 1.2 μM). Besides that, it potently inhibits vincristine binding to tubulin (K _i : 1.4 μM in a non-competitive manner). Dolastatin 10 also shows a moderate effect on enhancing the binding of colchicines to tubulin. In addition, Dolastatin 10 has the inhibitory activity in tubulin-dependent GTP binding.
Targets(IC ₅₀)	Others
In vitro	In the cellular assay, Dolastatin 10 shows activity against some human leukaemia, lymphoma, and solid tumor cell lines (such as OVCAR-3 and NSCLC) with IC ₅₀ values ranging from 0.1nM to 10nM. It is currently tested in clinical trials [2].

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1122 mL	5.5611 mL	11.1221 mL
5 mM	0.2224 mL	1.1122 mL	2.2244 mL
10 mM	0.1112 mL	0.5561 mL	1.1122 mL
50 mM	0.0222 mL	0.1112 mL	0.2224 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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