

XR-11576 HCl

Chemical Properties

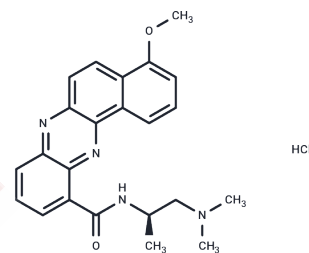
CAS No. :

Formula: C₂₃H₂₅ClN₄O₂

Molecular Weight: 424.92

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	XR-11576 HCl is a novel orally active dual topoisomerase I and II inhibitor with antitumor activity.
Targets(IC50)	Topoisomerase
In vitro	XR-11576 has an inhibitory effect (IC ₅₀ =0.0121 μM) on multidrug-resistant human non-small cell lung cancer cell line COR-L23 (COR-L23/R) overexpressing multidrug-resistant protein (MRP).[1]

Solubility Information

Solubility	DMSO: 45 mg/mL (105.9 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3534 mL	11.7669 mL	23.5338 mL
5 mM	0.4707 mL	2.3534 mL	4.7068 mL
10 mM	0.2353 mL	1.1767 mL	2.3534 mL
50 mM	0.0471 mL	0.2353 mL	0.4707 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

Vicker N, et al. Novel angular benzophenazines: dual topoisomerase I and topoisomerase II inhibitors as potential anticancer agents. J Med Chem. 2002;45(3):721-739.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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