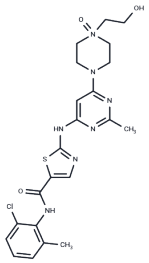
Data Sheet (Cat.No.T37600)

TargetMol

Dasatinib N-oxide

Chemical Properties



CAS No. : 910297-52-8

Formula: C22H26ClN7O3S

Molecular Weight: 504

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	Dasatinib N-oxide is a minor metabolite of Dasatinib.Dasatinib is an orally potent inhibitor of Src/Bcr-Abl.
Targets(IC50)	Bcr-Abl,Drug Metabolite
In vitro	Dasatinib N-oxide is the pharmacologically active metabolite after oral administration [1].

Solubility Information

Solubility	DMSO: 32.5 mg/mL (64.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (1.98 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9841 mL	9.9206 mL	19.8413 mL
5 mM	0.3968 mL	1.9841 mL	3.9683 mL
10 mM	0.1984 mL	0.9921 mL	1.9841 mL
50 mM	0.0397 mL	0.1984 mL	0.3968 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

Christopher, L.J., Cui, D., Li, W., et al. Biotransformation of [14C]dasatinib: In vitro studies in rat, monkey, and human and disposition after administration to rats and monkeys. Drug Metab. Dispos. 36(7), 1341-1356 (2008).
Plachká, K., ?vec, F., and Nováková, L. Ultra-high performance supercritical fluid chromatography in impurity control: Searching for generic screening approach. Anal. Chim. Acta 1039, 149-161 (2018).