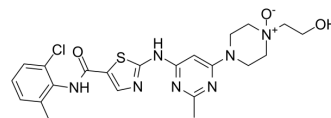


Dasatinib N-oxide

Cat. No.:	HY-133794
CAS No.:	910297-52-8
Molecular Formula:	C ₂₂ H ₂₆ ClN ₇ O ₃ S
Molecular Weight:	504
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 8.33 mg/mL (16.53 mM); ultrasonic and warming and heat to 60°C						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.83 mg/mL (1.65 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.83 mg/mL (1.65 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.83 mg/mL (1.65 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Dasatinib N-oxide is a minor metabolite of Dasatinib. Dasatinib is a potent and orally active dual Src/Bcr-Abl inhibitor ^{[1][2]} .
In Vivo	Dasatinib N-oxide is the pharmacologically active metabolite after oral administration ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Christopher LJ, et, al. Metabolism and disposition of dasatinib after oral administration to humans. Drug Metab Dispos. 2008 Jul;36(7):1357-64.

[2]. Furlong MT, et, al. A validated LC-MS/MS assay for the simultaneous determination of the anti-leukemic agent dasatinib and two pharmacologically active metabolites in human plasma: application to a clinical pharmacokinetic study. J Pharm Biomed Anal. 2012

Caution: Product has not been fully validated for medical applications. For research use only.

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