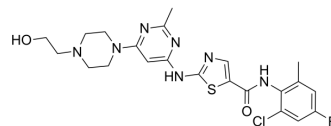


Dasatinib analog-1

Cat. No.:	HY-156883		
CAS No.:	1174416-41-1		
Molecular Formula:	C ₂₂ H ₂₅ ClFN ₇ O ₂ S		
Molecular Weight:	506		
Target:	Cytochrome P450		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (49.41 mM); ultrasonic and warming and adjust pH to 2 with 1M HCl and heat to 80°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9763 mL	9.8814 mL	19.7628 mL
	5 mM	0.3953 mL	1.9763 mL	3.9526 mL
	10 mM	0.1976 mL	0.9881 mL	1.9763 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (4.94 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (4.94 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (4.94 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Dasatinib analog-1 (compound 5826) inhibits CYP3A4 viability with a K_i value of 5.4 μM. Dasatinib analog-1 blocks the formation of glutathione adducts^[1].

REFERENCES

[1]. Xiaohai Li, et al. Characterization of dasatinib and its structural analogs as CYP3A4 mechanism-based inactivators and the proposed bioactivation pathways. Drug Metab Dispos. 2009, 37, 6.

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

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