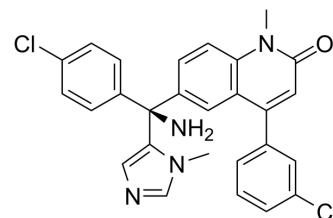


Tipifarnib (S enantiomer)

Cat. No.:	HY-10502A		
CAS No.:	192185-71-0		
Molecular Formula:	C ₂₇ H ₂₂ Cl ₂ N ₄ O		
Molecular Weight:	489.4		
Target:	Farnesyl Transferase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (51.08 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.0433 mL	10.2166 mL	20.4332 mL
	5 mM	0.4087 mL	2.0433 mL	4.0866 mL
	10 mM	0.2043 mL	1.0217 mL	2.0433 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 (5.11 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tipifarnib S enantiomer is the S-enantiomer of Tipifarnib. Tipifarnib is a potent and specific farnesyltransferase (FTase) inhibitor with IC₅₀ of 0.6 nM. Tipifarnib S enantiomer is the less active isomer.

REFERENCES

- [1]. Kraus JM, et al. Rational modification of a candidate cancer drug for use against Chagas disease. J Med Chem. 2009 Mar 26;52(6):1639-47.

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

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