Tipifarnib (S enantiomer)

Cat. No.: HY-10502A

CAS No.: 192185-71-0

Molecular Formula: $C_{27}H_{22}Cl_2N_4O$

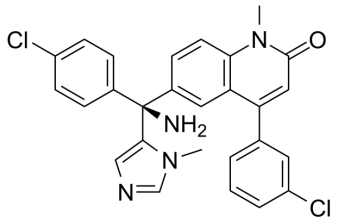
Molecular Weight: 489.4

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

Mass / Solvent / Concentration	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

1. 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
2. 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 IC_{50} 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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