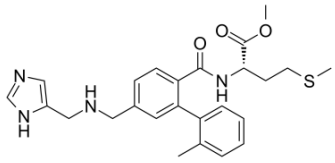
FTI-2153

Cat. No.:	HY-123242
CAS No.:	344900-92-1
Molecular Formula:	$C_{25}H_{30}N_4O_3S$
Molecular Weight:	466.6
Target:	Farnesyl Transferase
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 : 100 mg/mL (214.32 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1432 mL	10.7158 mL	21.4316 mL
	5 mM	0.4286 mL	2.1432 mL	4.2863 mL
	10 mM	0.2143 mL	1.0716 mL	2.1432 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 (5.36 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

FTI-2153 is a potent and highly selective inhibitor of farnesyltransferase (FTase), with an IC_{50} of 1.4 nM. FTI-2153 is >3000-fold more potent at blocking H-Ras (IC_{50}, 10 nM) than Rap1A processing. Anti-cancer activity[1].

REFERENCES

[1]. Sun J, et al. Antitumor efficacy of a novel class of non-thiol-containing peptidomimetic inhibitors of farnesyltransferase and geranylgeranyltransferase I: combination therapy with the cytotoxic agents cisplatin, Taxol, and gemcitabine. Cancer Res. 1999 Oct 1;59(19):4919-26.

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