FTI 276 TFA

Cat. No.: HY-15873A

CAS No.: 1217471-51-6

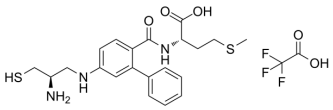
Molecular Formula: $C_{23}H_{28}F_3N_3O_5S_2$

Molecular Weight: 547.61

Target: Farnesyl Transferase

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (182.61 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.8261 mL	9.1306 mL	18.2612 mL
5 mM	0.3652 mL	1.8261 mL	3.6522 mL
10 mM	0.1826 mL	0.9131 mL	1.8261 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 (4.57 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

FTI-276 is a protein farnesyl transferase (PFT) inhibitor with IC_{50}s of 0.9 nM and 0.5 nM for Plasmodium falciparum and human, respectively[1].

IC_{50} & Target

IC50: 0.9 nM (PFT, Plasmodium falciparum), 0.5 nM (PFT, human)[1].

REFERENCES

[1]. Chakrabarti D, et al. Protein farnesyltransferase and protein prenylation in Plasmodium falciparum.J Biol Chem. 2002 Nov 1; 277(44):42066-73. Epub 2002 Aug 22.

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