Proteins

Product Data Sheet

Apratastat

Cat. No.: HY-119307 CAS No.: 287405-51-0 Molecular Formula: $C_{17}H_{22}N_2O_6S_2$

Molecular Weight: 415

MMP; TNF Receptor Target:

Pathway: Metabolic Enzyme/Protease; Apoptosis

In solvent

Storage: Powder -20°C

> 4°C 2 years -80°C 6 months

3 years

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 41.4 mg/mL (99.76 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.4096 mL	12.0482 mL	24.0964 mL
	5 mM	0.4819 mL	2.4096 mL	4.8193 mL
	10 mM	0.2410 mL	1.2048 mL	2.4096 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 (6.02 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.02 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Apratastat (TMI-005) is an orally active, non-selective and reversible TACE/MMPs inhibitor, can inhibit inhibit the release of			
$\label{prop:prop:prop:special} A pratastat\ has\ the\ potential\ to\ overcome\ radio the rapy-resistance\ in\ non-small\ cell\ lung\ cancer\ (NSCLC)^{[1][2]}.$			
stat is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne			
ddition (CuAAc) with molecules containing Azide groups.			

IC₅₀ & Target MMP

REFERENCES
[1]. leguchi K, et al. Savior or not: ADAM17 inhibitors overcome radiotherapy-resistance in non-small cell lung cancer. J Thorac Dis. 2016 Aug;8(8):E813-5.
[2]. Shu C, et al. Pharmacokinetic-pharmacodynamic modeling of apratastat: a population-based approach. J Clin Pharmacol. 2011 Apr;51(4):472-81.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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