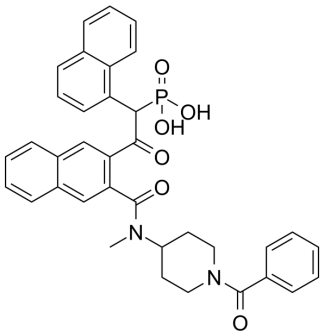
Cathepsin G Inhibitor I

Cat. No.:	HY-103351
CAS No.:	429676-93-7
Molecular Formula:	$C_{36}H_{33}N_2O_6P$
Molecular Weight:	620.63
Target:	Cathepsin
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (16.11 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.6113 mL	8.0563 mL	16.1127 mL
5 mM	0.3223 mL	1.6113 mL	3.2225 mL
10 mM	0.1611 mL	0.8056 mL	1.6113 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 (4.03 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (4.03 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cathepsin G Inhibitor I is a potent, selective, reversible, competitive, non-peptide inhibitor of cathepsin G[1].

REFERENCES

[1]. Greco MN, et al. Nonpeptide inhibitors of cathepsin G: optimization of a novel beta-ketophosphonic acid lead by structure-based drug design. J Am Chem Soc. 2002 Apr 17;124(15):3810-1.

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

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