Gü2602

Cat. No.: HY-144813

CAS No.: 1627094-88-5

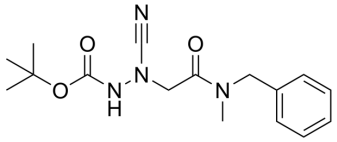
Molecular Formula: $C_{16}H_{22}N_4O_3$

Molecular Weight: 318.37

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 : 66.67 mg/mL (209.41 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1410 mL	15.7050 mL	31.4100 mL
	5 mM	0.6282 mL	3.1410 mL	6.2820 mL
	10 mM	0.3141 mL	1.5705 mL	3.1410 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (7.85 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Gü2602 is a potent, reversible cathepsin K (CatK) inhibitor with a K_i of 0.013 nM for mature CatK (mCatK). Gü2602 suppresses the autocatalytic activation of the cathepsin K zymogen[1].

IC_{50} & Target

cathepsin K

REFERENCES

[1]. Benýšek J, et al. Highly potent inhibitors of cathepsin K with a differently positioned cyanohydrazide warhead: structural analysis of binding mode to mature and zymogen-like enzymes. J Enzyme Inhib Med Chem. 2022 Dec;37(1):515-526.

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

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