3-(2-Pyridyldithio)propanoic Acid

Cat. No.: HY-130157

CAS No.: 68617-64-1

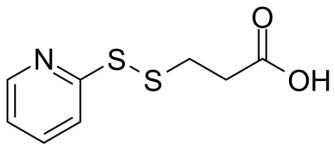
Molecular Formula: $C_8H_9NO_2S_2$

Molecular Weight: 215.29

Target: PROTAC Linkers

Pathway: PROTAC

Storage: 4°C, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (1161.22 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.6449 mL	23.2245 mL	46.4490 mL
	5 mM	0.9290 mL	4.6449 mL	9.2898 mL
	10 mM	0.4645 mL	2.3224 mL	4.6449 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: ≥ 2.08 mg/mL (9.66 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (9.66 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (9.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3-(2-Pyridyldithio)propanoic Acid is an alkyl chain-based PROTAC linker that can be used in the synthesis of PROTACs[1].

IC_{50} & Target

Alkyl-Chain

In Vitro

PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562

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