3-Maleimidopropionic acid

Cat. No.: HY-42145

CAS No.: 7423-55-4

Molecular Formula: $C_7H_7NO_4$

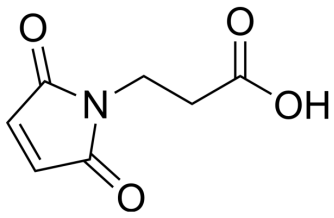
Molecular Weight: 169.13

Target: PROTAC Linkers

Pathway: PROTAC

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (591.26 mM; Need ultrasonic)

H_2O : ≥ 100 mg/mL (591.26 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	5.9126 mL	29.5631 mL	59.1261 mL
5 mM	1.1825 mL	5.9126 mL	11.8252 mL
10 mM	0.5913 mL	2.9563 mL	5.9126 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 (14.78 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (14.78 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (14.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3-Maleimidopropionic 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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