tert-Butyl 11-aminoundecanoate

Cat. No.: HY-130715

CAS No.: 220851-29-6

Molecular Formula: $C_{15}H_{31}NO_2$

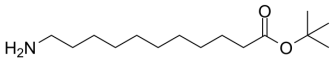
Molecular Weight: 257.41

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 (388.49 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.8849 mL	19.4243 mL	38.8485 mL
	5 mM	0.7770 mL	3.8849 mL	7.7697 mL
	10 mM	0.3885 mL	1.9424 mL	3.8849 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 (9.71 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.71 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.71 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

tert-Butyl 11-aminoundecanoate (compound 6b) is a PROTAC linker, which refers to the PEG composition. tert-Butyl 11-aminoundecanoate can be used in the synthesis of a series of PROTACs. 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].

IC_{50} & Target

Alkyl/ether

REFERENCES

[1]. Kim K, et al. Disordered region of cereblon is required for efficient degradation by proteolysis-targeting chimera. Sci Rep. 2019 Dec 23;9(1):19654.

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