Tetrazine-Ph-NHS ester

Cat. No.: HY-126908

CAS No.: 1616668-55-3

Molecular Formula: $C_{14}H_{11}N_5O_4$

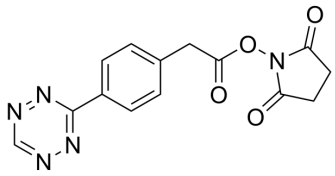
Molecular Weight: 313.27

Target: PROTAC Linkers

Pathway: PROTAC

Storage: -20°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 (319.21 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.1921 mL	15.9607 mL	31.9213 mL
	5 mM	0.6384 mL	3.1921 mL	6.3843 mL
	10 mM	0.3192 mL	1.5961 mL	3.1921 mL

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

BIOLOGICAL ACTIVITY

Description

Tetrazine-Ph-NHS ester is an alkyl/ether-based PROTAC linker that can be used in the synthesis of PROTACs[1]. Tetrazine-Ph-NHS ester is a click chemistry reagent, it contains a Tetrazine group that can undergo an inverse electron demand Diels-Alder reaction (iEDDA) with molecules containing TCO groups.

IC_{50} & Target

Alkyl/ether

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

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

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