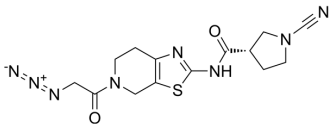
8RK64

Cat. No.:	HY-148254
CAS No.:	2705841-52-5
Molecular Formula:	$C_{14}H_{16}N_8O_2S$
Molecular Weight:	360.39
Target:	Deubiquitinase
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (277.48 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7748 mL	13.8739 mL	27.7477 mL
	5 mM	0.5550 mL	2.7748 mL	5.5495 mL
	10 mM	0.2775 mL	1.3874 mL	2.7748 mL

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

BIOLOGICAL ACTIVITY

Description

8RK64 is a covalent UCHL1 inhibitor (IC_{50}: 0.32 μM)[1]. 8RK64 is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAc) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

IC_{50} & Target

IC_{50}: 0.32 μM (UCHL1), 216 μM (UCHL3)[1]

REFERENCES

[1]. Kooij R, et al. Small-Molecule Activity-Based Probe for Monitoring Ubiquitin C-Terminal Hydrolase L1 (UCHL1) Activity in Live Cells and Zebrafish Embryos. J Am Chem Soc. 2020 Sep 30;142(39):16825-16841.

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

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