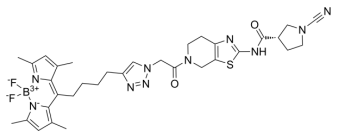
8RK59

Cat. No.:	HY-D1726
CAS No.:	2705841-53-6
Molecular Formula:	$C_{33}H_{39}BF_2N_{10}O_2S$
Molecular Weight:	688.6
Target:	Deubiquitinase
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	8RK59, a Bodipy probe, is a potent UCHL1 (ubiquitin C-terminal hydrolase L1) inhibitor, with an IC_{50} close to 1 μM. 8RK59 could penetrate and label living cells. BodipyFL-alkyne is coupled to the azide of 8RK64 (HY-148254) using copper(I)-mediated click chemistry, resulting in compound 8RK59[1].
IC_{50} & Target	UCHL1 (ubiquitin C-terminal hydrolase L1)[1]
In Vitro	8RK59 (5 μM, 24 h) binds only to wild-type UCHL1 but not to catalytically inactive UCHL1, indicating that the probe binding site is the active-site cysteine[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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.

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