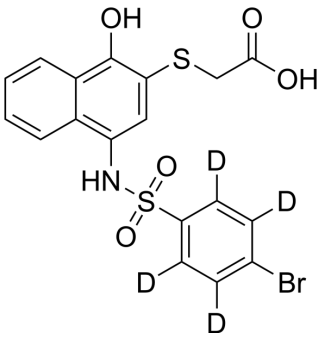
UMI-77-d_4

Cat. No.:	HY-18628S
Molecular Formula:	$C_{18}H_{10}D_4BrNO_5S_2$
Molecular Weight:	472.37
Target:	Bcl-2 Family; Isotope-Labeled Compounds
Pathway:	Apoptosis; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	UMI-77-d_4 is the deuterium labeled UMI-77. UMI-77 is a selective Mcl-1 inhibitor, which shows high binding affinity to Mcl-1 (IC50=0.31 μM). UMI-77 binds to the BH3 binding groove of Mcl-1 with Ki of 490 nM, showing selectivity over other members of anti-apoptotic Bcl-2 members.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Abulwerdi F, et al. A novel small-molecule inhibitor of mcl-1 blocks pancreatic cancer growth in vitro and in vivo. Mol Cancer Ther. 2014 Mar;13(3):565-575.

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