

Product Name	: MZ 1
Synonyms	: —
Cat No.	: M21746
CAS Number	: 1797406-69-9
Molecular Formula	: C ₄₉ H ₆₀ ClN ₉ O ₈ S ₂
Formula Weight	: 1002.64
Chemical Name	: —
Description	MZ 1 is a PROTAC BRD4 degrader. MZ 1 potently and rapidly induces reversible, long-lasting, and selective removal of BRD4 over BRD2 and BRD3. Kds of 382/120, 119/115, and 307/228 nM for BRD4 BD1/2, BRD3 BD1/2, and BRD2 BD1/2, respectively.
Pathway	: PROTACs
Target	: PROTAC
Receptor	: —
Solubility	: DMSO : 25 mg/mL (24.93 mM; Need ultrasonic); H ₂ O : < 0.1 mg/mL (insoluble)
SMILES	: <chem>CC1=C(C)SC2=C1C(C3=CC=C(Cl)C=C3)=N[C@@H](CC(NC(=O)OCCOCCOCCOCC(N[C@@H](C(C)(C)C)C(N4[C@@H](C[C@@H](O)C4)C(NCC5=CC=C(C6=C(N=CS6)C=C5)=O)=O)=O)C7=NN=C(C)N27</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Zengerle M, et al. Selective Small Molecule Induced Degradation of the BET Bromodomain Protein BRD4. ACS Chem Biol. 2015 Aug 21;10(8):1770-7. 2. Gadd MS, et al. Structural basis of PROTAC cooperative recognition for selective protein degradation. Nat Chem Biol. 2017 May;13(5):514-521. 3. Otto C, et al. Targeting bromodomain-containing protein 4 (BRD4) inhibits MYC expression in colorectal cancer cells. Neoplasia. 2019 Nov;21(11):1110-1120.