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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

MZ1

Item No. 21622

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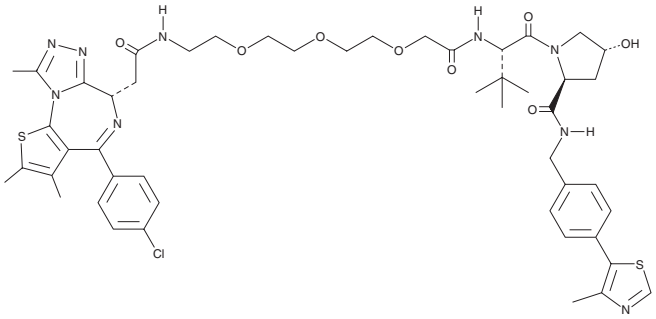

CAS Registry No.: 1797406-69-9
Formal Name: (4R)-N-[14-[(6S)-4-(4-chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl]-1,13-dioxo-3,6,9-trioxa-12-azatetradec-1-yl]-3-methyl-L-valyl-4-hydroxy-N-[[4-(4-methyl-5-thiazolyl)phenyl]methyl]-L-prolinamide
MF: $C_{49}H_{60}ClN_9O_8S_2$
FW: 1,002.6
Purity: ≥95%
UV/Vis.: λ_{max}: 256 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

MZ1 is supplied as a crystalline solid. A stock solution may be made by dissolving the MZ1 in the solvent of choice. MZ1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of MZ1 in these solvents is approximately 30 mg/ml.

MZ1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MZ1 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. MZ1 has a solubility of approximately 0.12 mg/ml in a 1:7 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

MZ1 is a hybrid compound that drives the selective proteasomal degradation of bromodomain-containing protein 4 (BRD4).[1] It is characterized as a proteolysis-targeting chimera (PROTAC) and contains JQ-1, which binds bromo- and extra-terminal (BET) proteins, linked to a ligand for the E3 ubiquitin ligase VHL. MZ1 induces the selective degradation of BRD4 in HeLa cells when used at 0.1-0.5 µM.[1] At concentrations of 2-10 µM, MZ1 causes the removal of BRD2, BRD3, and BRD4.[1] BRD protein removal is evident within four hours of adding MZ1 and persists for at least 48 hours, unless MZ1 is removed.[1]

Reference

1. Zengerle, M., Chan, K.-H., and Ciulli, A. Selective small molecule induced degradation of the BET bromodomain protein BRD4. *ACS Chem. Biol.* **10(8)**, 1770-1777 (2015).

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