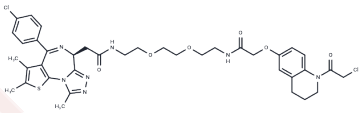
Data Sheet (Cat.No.T18060)

TargetMol

KB02-JQ1

Chemical Properties



CAS No. : 2384184-44-3

Formula: C38H43Cl2N7O6S

Molecular Weight: 796.77

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	KB02-JQ1 is a potent and specific proteolysis targeting chimera (PROTAC) that specifically degrades BRD4, acting as a molecular glue. It does not degrade BRD2 or BRD3. The mechanism of action involves covalent modification of the E3 ligase DCAF16, thereby promoting BRD4 degradation. Importantly, KB02-JQ1 demonstrates enhanced stability and durability in facilitating protein degradation within biological systems. The compound forms a complex with the ubiquitin E3 ligase ligand KB02 through a linker, resulting in the formation of KB02-JQ1[1].
Targets(IC50)	Epigenetic Reader Domain,PROTACs
In vitro	KB02-JQ1 (5-40 μM; 24 hours; HEK293T cells) treatment induces concentration-dependent degradation of endogenous BRD4 in HEK293T cells[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2551 mL	6.2753 mL	12.5507 mL
5 mM	0.251 mL	1.2551 mL	2.5101 mL
10 mM	0.1255 mL	0.6275 mL	1.2551 mL
50 mM	0.0251 mL	0.1255 mL	0.251 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhang X, et al. Electrophilic PROTACs that degrade nuclear proteins by engaging DCAF16. Nat Chem Biol. 2019 Jul; 15(7):737-746.

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