

KB05yne

Chemical Properties

CAS No. : 2724919-69-9
 Formula: C₂₂H₂₁BrN₂O₂
 Molecular Weight: 425.33
 Storage: 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	KB05yne is a site-selective, alkyne-functionalized electrophilic "fragment" probe, crafted for covalent ligand discovery with preferential reactivity towards specific cysteine residues in proteins. It robustly labels wild-type target proteins (such as CDKN2AIP, HPCAL1) but not their cysteine-to-alanine mutants, confirming site-specific cysteine reactivity. KB05yne is utilized in the discovery and optimization of site-specific covalent ligands for a range of structurally and functionally diverse proteins, particularly in studying cysteine residues within cancer-related or hard-to-purify proteins.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3511 mL	11.7556 mL	23.5112 mL
5 mM	0.4702 mL	2.3511 mL	4.7022 mL
10 mM	0.2351 mL	1.1756 mL	2.3511 mL
50 mM	0.047 mL	0.2351 mL	0.4702 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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