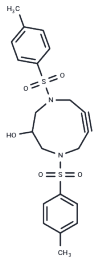
Data Sheet (Cat.No.T87926)

TargetMol

DACN(Tos2,6-OH)

Chemical Properties



CAS No. : 2109751-74-6

Formula: C21H24N2O5S2

Molecular Weight: 448.56

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	DACN(Tos2,6-OH) serves as a potent click chemistry reagent featuring an Azide group and a distinctively bent alkyne moiety. This structure enhances its reactivity for cycloaddition reactions compared to nonbent acyclic alkynes, especially evident in cyclononyne alkynes which exhibit substantially higher reactivity. The bent configuration adds both electronic and steric effects that intensify the reactivity, facilitating strain-promoted azide-alkyne cycloaddition (SPAAC). SPAAC with cycloalkynes is commonly utilized for dependable molecular conjugation across various fields. Furthermore, DACN(Tos2,6-OH) can participate in copper-catalyzed azide-alkyne cycloaddition (CuAAc), coupling efficiently with molecules that contain Azide groups. Compared to cyclooctynes, DACNs demonstrate superior thermal and chemical stabilities while maintaining similar click reactivity [1]. Nitrogens within the compound provide versatile linking sites for numerous functional units.
Targets(IC50)	ADC Linker

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2294 mL	11.1468 mL	22.2936 mL
5 mM	0.4459 mL	2.2294 mL	4.4587 mL
10 mM	0.2229 mL	1.1147 mL	2.2294 mL
50 mM	0.0446 mL	0.2229 mL	0.4459 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.

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