

MS4077

## Chemical Properties

CAS No. : 2230077-10-6

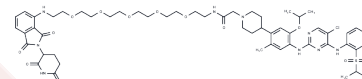
Formula: C<sub>55</sub>H<sub>72</sub>ClN<sub>9</sub>O<sub>13</sub>S

Molecular Weight: 1134.73

Keep away from direct sunlight

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	MS4077 is an degrader of anaplastic lymphoma kinase (ALK) PROTAC(Kd of 37 nM for binding affinity to ALK).
Targets(IC50)	ALK,PROTACs
In vitro	MS4077 (5) and MS4078 (6) potently decreased cellular levels of oncogenic active ALK fusion proteins in a concentration- and time-dependent manner in SU-DHL-1 lymphoma and NCI-H2228 lung cancer cells. The ALK protein degradation induced by compounds 5 and 6 was cereblon and proteasome dependent. In addition, compounds 5 and 6 potently inhibited proliferation of SU-DHL-1 cells. Furthermore, compound 6 displayed good plasma exposure in a mouse pharmacokinetic study, thus is suitable for in vivo efficacy studies.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8813 mL	4.4063 mL	8.8127 mL
5 mM	0.1763 mL	0.8813 mL	1.7625 mL
10 mM	0.0881 mL	0.4406 mL	0.8813 mL
50 mM	0.0176 mL	0.0881 mL	0.1763 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 C, et al. Proteolysis Targeting Chimeras (PROTACs) of Anaplastic Lymphoma Kinase (ALK). Eur J Med Chem. 2018 May 10;151:304-314.

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