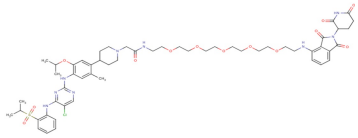
Data Sheet (Cat.No.T13781)

MS4077

Chemical Properties



CAS No.:	2230077-10-6
Formula:	C55H72ClN9O13S
Molecular Weight:	1134.73
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	MS4077 is an degrader of anaplastic lymphoma kinase (ALK) PROTAC(Kd of 37 nM for binding affinity to ALK).
Targets(IC_{50})	ALK: None
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.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.881 mL	4.406 mL	8.813 mL
5 mM	0.176 mL	0.881 mL	1.763 mL
10 mM	0.088 mL	0.441 mL	0.881 mL
50 mM	0.018 mL	0.088 mL	0.176 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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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