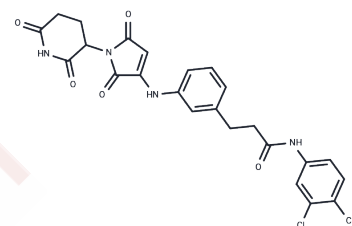


ALV1

## Chemical Properties

CAS No. : 2438124-79-7  
 Formula: C<sub>25</sub>H<sub>23</sub>ClN<sub>4</sub>O<sub>5</sub>  
 Molecular Weight: 494.93  
 Storage: Store at low temperature  
 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	ALV1 is a molecular glue degrader that targets and degrades Ikaros (IKZF1) and Helios (IKZF2), with DC50 values of 2.5 nM and 10.3 nM, respectively. ALV1 binds to CRBN with an IC50 of 0.55 μM and induces the dimerization of CRBN and Helios. It can be used to investigate the properties and functions of regulatory T cells .
Targets(IC50)	Ligands for E3 Ligase,Molecular Glues,IKZF
In vitro	<p>ALV1 (0-10 μM, 4-18 hours) induces degradation of Ikaros and Helios and promotes IL-2 secretion in Jurkat cells [1].</p> <p>ALV1 (1 μM, 24 hours) effectively degrades Ikaros and Helios in Treg cells isolated from human peripheral blood [1].</p> <p>ALV1 (0.1-10 μM, 4 hours) induces degradation of Ikaros and Helios without affecting the stability of GSPT1 in Jurkat cells [1].</p> <p>ALV1 (1 μM, 4 hours) induces Helios degradation with no detectable off-target effects in Jurkat cells [1].</p> <p>ALV1 (1 μM, 18 hours) promotes IL-2 secretion more strongly than lenalidomide in Jurkat cells, suggesting that Helios exerts a stronger inhibitory effect on IL-2 production in this system [1].</p>

## Solubility Information

Solubility	DMSO: 40 mg/mL (80.82 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.0205 mL	10.1024 mL	20.2049 mL
5 mM	0.4041 mL	2.0205 mL	4.041 mL
10 mM	0.202 mL	1.0102 mL	2.0205 mL
50 mM	0.0404 mL	0.202 mL	0.4041 mL

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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

Eric S Wang, et al. Acute pharmacological degradation of Helios destabilizes regulatory T cells. Nat Chem Biol. 2021 Jun;17(6):711-717.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481