

LDC7559

Chemical Properties

CAS No. : 2407782-01-6

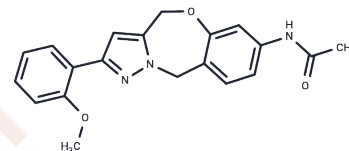
Formula: C₂₀H₁₉N₃O₃

Molecular Weight: 349.38

Store at low temperature

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	LDC7559 inhibits gasdermin D (GSDMD) by blocking neutrophil extracellular trap (NET) at late stage.
Targets(IC50)	Pyroptosis
In vitro	LDC7559 (1 and 5 μ M) inhibits IL-1 β release upon inflammasome activation, and significantly blocks the lethal effect of both human and murine GSDMD NT domains transfected into HEK293T cells[3].

Solubility Information

Solubility	DMSO: 95 mg/mL (271.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (9.45 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8622 mL	14.3111 mL	28.6221 mL
5 mM	0.5724 mL	2.8622 mL	5.7244 mL
10 mM	0.2862 mL	1.4311 mL	2.8622 mL
50 mM	0.0572 mL	0.2862 mL	0.5724 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

Spel L, et al. Gasdermin D opens the way for NETs. *Nat Rev Rheumatol*. 2018 Dec;14(12):690-692.

Sollberger G, et al. Gasdermin D plays a vital role in the generation of neutrophil extracellular traps. *Sci Immunol*. 2018 Aug 24;3(26). pii: eaar6689.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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