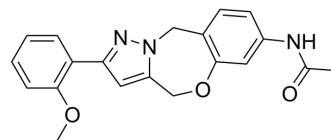


LDC7559

Cat. No.:	HY-111674		
CAS No.:	2407782-01-6		
Molecular Formula:	C ₂₀ H ₁₉ N ₃ O ₃		
Molecular Weight:	349.38		
Target:	Pyroptosis		
Pathway:	Apoptosis; Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (286.22 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.95 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.95 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.95 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	LDC7559 is a gasdermin D (GSDMD) inhibitor via blocking neutrophil extracellular trap (NET) in the late stages ^[1] .
IC ₅₀ & Target	Gasdermin D ^[1] .
In Vitro	LDC7559 (1 and 5 μM) inhibits IL-1β release upon inflammasome activation, and significantly blocks the lethal effect of both human and murine GSDMD NT domains transfected into HEK293T cells ^[3] . LDC7559 functions directly through blocking the activity of the GSDMD NT domain, rather than interfering with the

activation and cleavage process^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Elife. 2021 Jul 21;10:e68755.
- Elife. 2021 Jul 21;10:e68755.
- Life Sci. 2023 Sep 22;122123.
- Eur J Immunol. 2022 Oct 17.
- FASEB J. 2020 Oct;34(10):14024-14041.

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REFERENCES

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

[2]. 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.

[3]. Ankit Pandeya, et al. Gasdermin D (GSDMD) as a New Target for the Treatment of Infection. Medchemcomm. 2019 Apr 4;10(5):660-667.

Caution: Product has not been fully validated for medical applications. For research use only.

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