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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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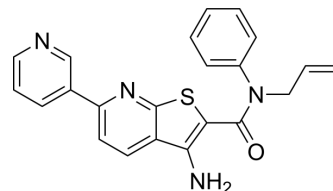
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SOD1-Derlin-1 inhibitor-2

Cat. No.:	HY-123982		
CAS No.:	2170170-27-9		
Molecular Formula:	C ₂₂ H ₁₈ N ₄ OS		
Molecular Weight:	386.47		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (129.38 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5875 mL	12.9376 mL	25.8752 mL
		5 mM	0.5175 mL	2.5875 mL	5.1750 mL
10 mM		0.2588 mL	1.2938 mL	2.5875 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.47 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.47 mM); Suspended solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	SOD1-Derlin-1 inhibitor-2 (compound 56-59) is an inhibitor of SOD1-Derlin-1 interaction. SOD1-Derlin-1 inhibitor-2 attenuates the interactions between Derlin-1 and SOD1 ^{mut} . SOD1-Derlin-1 inhibitor-2 can be used for the research of amyotrophic lateral sclerosis (ALS) ^[1] .
In Vitro	SOD1-Derlin-1 inhibitor-2 (compound 56-59; 0.1-100 μM) inhibits the SOD1-Derlin-1 interaction in a dose-dependent manner [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	SOD1-Derlin-1 inhibitor-2 (compound 56-59; i.c.v.; 3 mM, flow rate 0.15 μL/h) ameliorates ALS pathology in ALS model mice [1].

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

Animal Model:	ALS model C57BL/6 mice ^[1]
Dosage:	3 mM, flow rate 0.15 µL/h
Administration:	intracerebroventricular injection
Result:	Had significantly delayed onset, by a median of 4.5 weeks (14.5% improvement) and prolonged survival, by a median of 5 weeks (14.2% improvement).

REFERENCES

[1]. Tsuburaya N, et al. A small-molecule inhibitor of SOD1-Derlin-1 interaction ameliorates pathology in an ALS mouse model. Nat Commun. 2018 Jul 10;9(1):2668.

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

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