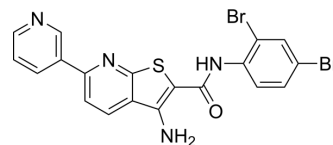


## SOD1-Derlin-1 inhibitor-1

<b>Cat. No.:</b>	HY-138131		
<b>CAS No.:</b>	840461-03-2		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>12</sub> Br <sub>2</sub> N <sub>4</sub> OS		
<b>Molecular Weight:</b>	504.2		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 2.7 mg/mL (5.36 mM; ultrasonic and warming and adjust pH to 4 with HCl and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9833 mL	9.9167 mL	19.8334 mL
	5 mM	0.3967 mL	1.9833 mL	3.9667 mL
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

SOD1-Derlin-1 inhibitor-1 (compound 56-20) is an inhibitor of SOD1-Derlin-1 interaction. SOD1-Derlin-1 inhibitor-1 inhibits SOD1<sup>G93A</sup>-Derlin-1 complex with an IC<sub>50</sub> value of 7.11 μM. SOD1-Derlin-1 inhibitor-1 can be used for the research of amyotrophic lateral sclerosis<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 7.11 μM (SOD1<sup>G93A</sup>-Derlin-1 complex)<sup>[1]</sup>

#### In Vitro

SOD1-Derlin-1 inhibitor-1 (50 μM; 16 h) inhibits SOD1<sup>G93A</sup>-Derlin-1 complex with an IC<sub>50</sub> value of 7.11 μM<sup>[1]</sup>. SOD1-Derlin-1 inhibitor-1 (250 nM; 6 h) interacts with SOD1<sup>G93A</sup> with a K<sub>d</sub> value of 81.1 μM<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### 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.

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

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