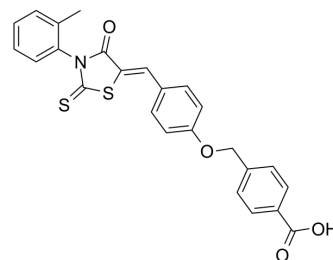


Slingshot inhibitor D3

Cat. No.:	HY-124366		
CAS No.:	1715076-35-9		
Molecular Formula:	C ₂₅ H ₁₉ NO ₄ S ₂		
Molecular Weight:	461.55		
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 : 25 mg/mL (54.17 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1666 mL	10.8331 mL	21.6661 mL
5 mM	0.4333 mL	2.1666 mL	4.3332 mL
10 mM	0.2167 mL	1.0833 mL	2.1666 mL

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

BIOLOGICAL ACTIVITY

Description

Slingshot inhibitor D3 is a potent, selective, reversible and competitive inhibitor of Slingshot. The IC₅₀ value for Slingshot 1 is 3 μM and the K_i value for Slingshot 2 is 3.9 μM. Slingshot inhibitor D3 has similar inhibitory activities toward both Slingshot 1 and Slingshot 2^[1].

IC₅₀ & Target

Ki: 3.9 μM (Slingshot 2)^[1].
IC₅₀: 3 μM (Slingshot 1)^[1]

In Vitro

Slingshot inhibitor D3 (5 μM; 45 minutes; PC12 cells;) significantly blocks NGF-induced dephosphorylation of cofilin at 15 and 30 minutes^[1].

Slingshot inhibitor D3 (5 μM; 45 minutes; PC12 cells) significantly decreases the NGF-induced cell migration, consistent with its inhibitory role in cofilin dephosphorylation^[1].

Slingshot inhibitor D3 (HEK293 cells) specifically blocks angiotensin II-induced cofilin dephosphorylation. Slingshot inhibitor D3 prevents cofilin dephosphorylation through inhibition of Slingshot^[1].

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

Western Blot Analysis^[1]

Cell Line:	PC12 cells
Concentration:	5 μ M
Incubation Time:	45 minutes
Result:	Significantly blocked NGF-induced dephosphorylation of cofilin at 15 and 30 minutes.

REFERENCES

[1]. Li KS, et al. Identification of para-Substituted Benzoic Acid Derivatives as Potent Inhibitors of the Protein Phosphatase Slingshot. ChemMedChem. 2015;10(12):1980-1987.

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

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