## Belumosudil mesylate

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Cat. No.:	HY-15307A	
CAS No.:	2109704-99-4	
Molecular Formula:	$C_{27}H_{28}N_6O_5S$	N Ö
Molecular Weight:	548.61	HN
Target:	ROCK	N N
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Stem Cell/Wnt; TGF-beta/Smad	0
Storage:	4°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	0

## SOLVENT & SOLUBILITY

	Mass Solvent Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutic	1 mM	1.8228 mL	9.1139 mL	18.2279 mL
Stock Solutions	5 mM	0.3646 mL	1.8228 mL	3.6456 mL
	10 mM	0.1823 mL	0.9114 mL	1.8228 mL

BIOLOGICAL ACTIVITY					
Description	Belumosudil mesylate (KD025 mesylate) is a selective inhibitor of ROCK2 with IC <sub>50</sub> s of 105 nM and 24 μM for RO ROCK1, respectively. Anti-fibrotic properties <sup>[1]</sup> .				
IC₅₀ & Target	ROCK2 105 nM (IC <sub>50</sub> )	ROCK1 24 μΜ (IC <sub>50</sub> )			
In Vitro	Belumosudil (SLx-2119; 40 μM) induces significant down-regulations of Tsp-1 and CTGF mRNA levels in PASMC. The microarray hybridized with aRNA from HMVEC treated with Belumosudil, shows a 5-times higher background than the or arrays <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Belumosudil (KD-025; 100, 200 or 300 mg/kg, i.p.) dose-dependently reduces infarct volume after transient middle cere artery occlusion. Belumosudil is at least as efficacious in aged, diabetic or female mice, as in normal adult males <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
In Vivo					

## CUSTOMER VALIDATION

- J Autoimmun. 2018 May;89:125-138.
- Am J Respir Cell Mol Biol. 2020 Oct;63(4):519-530.
- Neurobiol Dis. 2019 Apr;124:520-530.
- Int Immunopharmacol. 2023 Mar 15;118:110017.
- Am J Physiol Heart Circ Physiol. 2022 Jun 3.

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## REFERENCES

[1]. Boerma, M., et al. Comparative gene expression profiling in three primary human cell lines after treatment with a novel inhibitor of Rho kinase. Blood Coagul Fibrinolysis. 2008 Oct;19(7):709-18.

[2]. Lee, J.H., et al. Selective ROCK2 Inhibition In Focal Cerebral Ischemia. Ann Clin Transl Neurol. 2014 Jan 1;1(1):2-14.

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

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