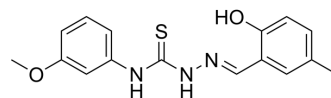


ALR2-IN-1

Cat. No.:	HY-150630
CAS No.:	2799695-54-6
Molecular Formula:	C ₁₆ H ₁₇ N ₃ O ₂ S
Molecular Weight:	315.39
Target:	Aldose Reductase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (317.07 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1707 mL	15.8534 mL	31.7068 mL
	5 mM	0.6341 mL	3.1707 mL	6.3414 mL
	10 mM	0.3171 mL	1.5853 mL	3.1707 mL

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

BIOLOGICAL ACTIVITY

Description

ALR2-IN-1 is a potent and selective ALR2 inhibitor (IC₅₀=1.42 μM). ALR2-IN-1 shows antioxidant and antiglycative properties. ALR2-IN-1 can be used in diabetic complication research^[1].

IC₅₀ & Target

IC₅₀: 1.42 μM (ALR2) >100 μM (ALR1)^[1]

REFERENCES

[1]. Aqeel Imran, et al. Development, Molecular Docking, and In Silico ADME Evaluation of Selective ALR2 Inhibitors for the Treatment of Diabetic Complications via Suppression of the Polyol Pathway. ACS Omega 2022.

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

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