## Rosiptor

Cat. No.:	HY-109011		
CAS No.:	782487-28-	9	
Molecular Formula:	C <sub>20</sub> H <sub>35</sub> NO <sub>2</sub>		
Molecular Weight:	321.5		
Target:	Phosphatas	se	
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 vear

## SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
F	Preparing Stock Solutions	1 mM	3.1104 mL	15.5521 mL	31.1042 ml
		5 mM	0.6221 mL	3.1104 mL	6.2208 mL
	10 mM	0.3110 mL	1.5552 mL	3.1104 mL	

BIOLOGICAL ACTIVITY			
Description	Rosiptor (AQX-1125) is a selective and orally active phosphatase SHIP1 activator with anti-inflammatory effects. Rosiptor (AQX-1125) inhibits Akt phosphorylation, inflammatory mediator production and leukocyte chemotaxis in vitro <sup>[1][2]</sup> .		
IC <sub>50</sub> & Target	SHIP1 <sup>[1]</sup>		
In Vitro	Rosiptor (0.1-10 μM; 30 min MCE has not independently Western Blot Analysis <sup>[1]</sup>	nutes) inhibits Akt activation in MOLT-4, but not in Jurkat cells <sup>[1]</sup> . y confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	MOLT-4 cells and SHIP1-deficient Jurkat cells (IGF-1 stimulation)	
	Concentration:	0.1, 1, 10 μΜ	
	Incubation Time:	30 minutes	





Product Data Sheet

	Result:	Induced a concentration-dependent decrease in Akt phosphorylation in MOLT-4 cells, while it failed to affect Akt phosphorylation in Jurkat cells.		
In Vivo	Rosiptor (3-30 mg/kg; challenged mice and re Rosiptor (10 mg/kg; p.o bioavailability <sup>[1]</sup> . MCE has not independ	Rosiptor (3-30 mg/kg; p.o.; daily for 3 days) significantly reduces the total number of BAL leukocytes in NSC-125066- challenged mice and reduces MPO activity <sup>[2]</sup> . Rosiptor (10 mg/kg; p.o.) has the C <sub>max</sub> value of 0.830 μM and the t <sub>1/2</sub> value of 5.2 hours. AQX-1125 also exhibits >80% oral bioavailability <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	6-8 weeks old male CD-1 mice <sup>[1]</sup>		
	Dosage:	3, 10, 30 mg/kg		
	Administration:	p.o.; daily for 3 days		
	Result:	Significantly reduced the total number of BAL leukocytes in NSC-125066-challenged mice up to a maximum of 60% at 7 days and 63% at 21 days at 30 mg/kg; Reduced MPO activity by 54% at Day 7 and by 74% at Day 21 at 30 mg/kg.		
	Animal Model:	Male Sprague-Dawley rats <sup>[1]</sup>		
	Dosage:	10 mg/kg (Pharmacokinetic Study)		
	Administration:	Oral administration		
	Result:	The C <sub>max</sub> value is 0.830 $\mu$ M and the t <sub>1/2</sub> value is 5.2 hours.		

## CUSTOMER VALIDATION

- Antiviral Res. 2022 Sep 22;105424.
- Front Cell Dev Biol. 2022 Apr 4;10:826023.
- Cell Biol Int. 2020 Dec 15.

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## REFERENCES

[1]. Stenton GR, et al. Characterization of AQX-1125, a small-molecule SHIP1 activator: Part 1. Effects on inflammatory cell activation and chemotaxis in vitro and pharmacokinetic characterization in vivo. Br J Pharmacol. 2013 Mar;168(6):1506-18.

[2]. Cross J, et al. AQX-1125, small molecule SHIP1 activator inhibits NSC-125066-induced pulmonary fibrosis. Br J Pharmacol. 2017 Sep;174(18):3045-3057.

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

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