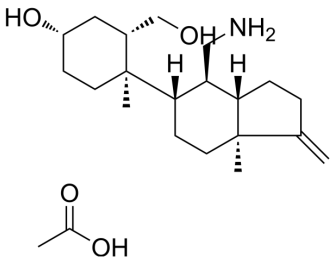
Rosiptor acetate

Cat. No.:	HY-109011A
CAS No.:	782487-29-0
Molecular Formula:	$C_{22}H_{39}NO_4$
Molecular Weight:	381.55
Target:	Phosphatase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Rosiptor (AQX-1125) acetate is a selective and orally active phosphatase SHIP1 activator with anti-inflammatory effects. Rosiptor acetate (AQX-1125) inhibits Akt phosphorylation, inflammatory mediator production and leukocyte chemotaxis in vitro[1][2].
IC_{50} & Target	SHIP1[1]
In Vitro	Rosiptor acetate (0.1-10 μM; 30 minutes) inhibits Akt activation in MOLT-4, but not in Jurkat cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Rosiptor acetate (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[2]. Rosiptor acetate (10 mg/kg; p.o.) has the C_{max} value of 0.830 μM and the $t_{1/2}$ value of 5.2 hours. AQX-1125 also exhibits >80% oral bioavailability[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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