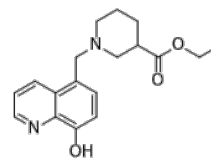


Product Name : CLEC-2 inhibitor MAS9
Cat. No. : PC-24478
CAS No. : 514185-12-7
Molecular Formula : C₁₈H₂₂N₂O₃
Molecular Weight : 314.39
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 514185-12-7

Biological Activity

MAS9 is a specific small molecule inhibitor targeting the C-type lectin-like receptor-2 (**CLEC-2**)-**podoplanin** interaction with IC₅₀ of 4.5 uM, inhibits CLEC-2-mediated platelet aggregation.

MAS9 (20-30 uM) significantly inhibits platelet aggregation to both CLEC-2 agonists rhodocytin and hemin.

MAS9 displays inhibition for CLEC-2-mediated aggregation over other platelet receptors, GPVI, thromboxane prostanoid (TP) receptor, and proteinase activated receptors (PAR1 and PAR4).

MAS9 also displays selective inhibition of CLEC-2-mediated tyrosine kinase signalling. CLEC-2 and GPVI share similar proximal signalling events, including the phosphorylation and activation of the kinase Syk.

MAS9 has no inhibitory effect either on 0.3 µg·ml⁻¹ CRP-XL or 0.1 U·ml⁻¹ thrombin-mediated platelet aggregation, also shows no inhibitory effect on lower concentrations of thrombin or U46619-mediated aggregation.

MAS9 inhibits CLEC-2-dependent platelet adhesion but inhibits platelet spreading to all substrates.

MAS9 (10-30 uM) inhibits platelet adhesion to human dermal lymphatic endothelial cells.

References

Sowa MA, et al. *Br J Pharmacol*. 2025 Apr 23. doi: 10.1111/bph.70036.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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