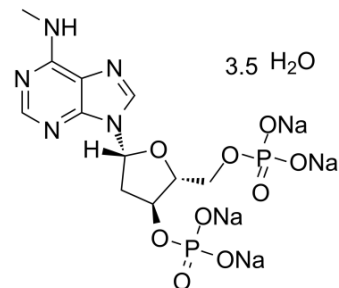


MRS2179 tetrasodium hydrate

Cat. No.:	HY-101308A		
Molecular Formula:	C ₁₁ H ₁₃ N ₅ O ₉ P ₂ Na _{4.3} ·½H ₂ O		
Molecular Weight:	576.21		
Target:	P2Y Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	MRS2179 tetrasodium hydrate is a competitive P2Y1 receptor antagonist, with a K _b of 102 nM and a pA ₂ of 6.99 for turkey P2Y1 receptor. MRS2179 tetrasodium hydrate is selective for P2Y1 over P2X1 (IC ₅₀ =1.15 μM), P2X3 (12.9 μM), P2X2, P2X4, P2Y2, P2Y4, and P2Y6 receptors ^{[1][2]} . MRS2179 tetrasodium hydrate inhibits platelet aggregation ^[3] .
In Vivo	MRS2179 tetrasodium hydrate (50 mg/kg; i.p.) prolongs the bleeding time ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	CL57BLr6 mice ^[3]
Dosage:	50 mg/kg
Administration:	Injection into the jugular vein of mice
Result:	The bleeding time, which reflects in vivo primary haemostasis, was significantly prolonged in MRS2179-treated mice, 30 s after injection of MRS2179.

REFERENCES

- [1]. Nandan E, et al. Synthesis, biological activity, and molecular modeling of ribose-modified deoxyadenosine bisphosphate analogues as P2Y(1) receptor ligands. *J Med Chem.* 2000;43(5):829-842.
- [2]. von Kügelgen I. Pharmacological profiles of cloned mammalian P2Y-receptor subtypes. *Pharmacol Ther.* 2006;110(3):415-432.
- [3]. Baurand A, Raboisson P, Freund M, et al. Inhibition of platelet function by administration of MRS2179, a P2Y1 receptor antagonist. *Eur J Pharmacol.* 2001;412(3):213-221.

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

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