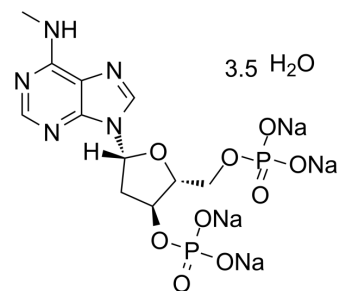


## MRS2179 tetrasodium hydrate

<b>Cat. No.:</b>	HY-101308A
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>13</sub> N <sub>5</sub> O <sub>9</sub> P <sub>2</sub> Na <sub>4</sub> ·3H <sub>2</sub> O
<b>Molecular Weight:</b>	576.21
<b>Target:</b>	P2Y Receptor
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

<b>Description</b>	MRS2179 tetrasodium hydrate is a competitive P2Y1 receptor antagonist, with a K <sub>b</sub> of 102 nM and a pA <sub>2</sub> of 6.99 for turkey P2Y1 receptor. MRS2179 tetrasodium hydrate is selective for P2Y1 over P2X1 (IC <sub>50</sub> =1.15 μM), P2X3 (12.9 μM), P2X2, P2X4, P2Y2, P2Y4, and P2Y6 receptors <sup>[1][2]</sup> . MRS2179 tetrasodium hydrate inhibits platelet aggregation <sup>[3]</sup> .
<b>In Vivo</b>	MRS2179 tetrasodium hydrate (50 mg/kg; i.p.) prolongs the bleeding time <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>Animal Model:</b>	CL57BLr6 mice <sup>[3]</sup>
<b>Dosage:</b>	50 mg/kg
<b>Administration:</b>	Injection into the jugular vein of mice
<b>Result:</b>	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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