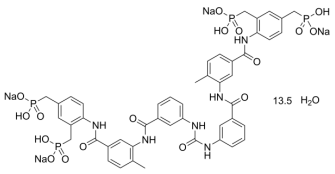
NF546 hydrate

Cat. No.:	HY-108661A
Molecular Formula:	$C_{47}H_{44}N_6Na_4O_{17}P_4 \cdot 13.5H_2O$
Molecular Weight:	1424.01
Target:	P2Y Receptor
Pathway:	GPCR/G Protein
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	NF546 (hydrate) is a selective non-nucleotide P2Y11 agonist with a pEC_{50} of 6.27. NF546 (hydrate) stimulates release of interleukin-8 from human monocyte-derived dendritic cells[1].
IC_{50} & Target	pEC50: 6.27 (P2Y11)[1]
In Vitro	NF546 (hydrate) is relatively selective for P2Y11 over P2Y1, P2Y2, P2Y4, P2Y6, P2Y12, P2X1, P2X2, and P2X2-X3. NF546 (hydrate) (100 μM; 24 hours) is equi-efficacious in stimulating TSP-1 release and inhibiting the LPS-induced release of IL-12p70 in human monocyte-derived dendritic cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Meis S, et al. NF546 [4,4'-(carbonylbis(imino-3,1-phenylene-carbonylimino-3,1-(4-methyl-phenylene)-carbonylimino))-bis(1,3-xylene-alpha,alpha'-diphosphonic acid) tetrasodium salt] is a non-nucleotide P2Y11 agonist and stimulates release of interleukin-8 from human monocyte-derived dendritic cells. J Pharmacol Exp Ther. 2010 Jan;332(1):238-47.

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