

NF546

Chemical Properties

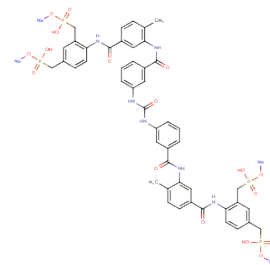
CAS No. : 1006028-37-0

Formula: C₄₇H₄₈N₆Na₄O₁₇P₄

Molecular Weight: 1184.78

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	NF546 is a selective agonist of non-nucleotide P2Y ₁₁ (pEC ₅₀ of 6.27).
Targets(IC ₅₀)	Others
In vitro	The selective non-nucleotide P2Y ₁₁ agonist NF546 was identified. NF546 had a pEC ₅₀ of 6.27 and is relatively selective for P2Y ₁₁ over P2Y ₁ , P2Y ₂ , P2Y ₄ , P2Y ₆ , P2Y ₁₂ , P2X ₁ , P2X ₂ , and P2X ₂ -X ₃ . The pA ₂ of NF340 was 8.02 against ATPγS and 8.04 against NF546 (calcium assays). NF546 was further tested for P2Y ₁₁ -mediated effects in monocyte-derived dendritic cells. Similarly to ATPγS, NF546 led to thrombospondin-1 secretion and inhibition of lipopolysaccharide-stimulated interleukin-12 release, whereas NF340 inhibited these effects. Further, for the first time, it was shown that ATPγS or NF546 stimulation promotes interleukin 8 (IL-8) release from dendritic cells, which could be inhibited by NF340.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.844 mL	4.2202 mL	8.4404 mL
5 mM	0.1688 mL	0.844 mL	1.6881 mL
10 mM	0.0844 mL	0.422 mL	0.844 mL
50 mM	0.0169 mL	0.0844 mL	0.1688 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481