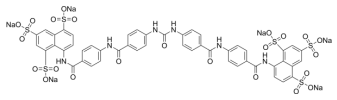
NF279

Cat. No.:	HY-D0976
CAS No.:	202983-32-2
Molecular Formula:	$C_{49}H_{30}N_6Na_6O_{23}S_6$
Molecular Weight:	1401.12
Target:	P2X Receptor; HIV
Pathway:	Membrane Transporter/Ion Channel; Anti-infection
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 14 mg/mL (9.99 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	0.7137 mL	3.5686 mL	7.1371 mL
5 mM	0.1427 mL	0.7137 mL	1.4274 mL
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NF279 is a potent selective and reversible P2X1 receptor antagonist, with an IC_{50} of 19 nM. NF279 displays good selectivity over P2X2, P2X3 (IC_{50}=1.62 μM), P2X4 (IC_{50}>300 μM). NF279 is a dual HIV-1 coreceptor inhibitor that interferes with the functional engagement of CCR5 and CXCR4 by Env[1][2].

IC_{50} & Target	HIV-1	p2x1 Receptor

REFERENCES

[1]. Rettinger J, Schmalzing G, Damer S, Müller G, Nickel P, Lambrecht G. The suramin analogue NF279 is a novel and potent antagonist selective for the P2X(1) receptor. Neuropharmacology. 2000;39(11):2044-2053.

[2]. Giroud C, et al. P2X1 Receptor Antagonists Inhibit HIV-1 Fusion by Blocking Virus-Coreceptor Interactions. J Virol. 2015;89(18):9368-9382.

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

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