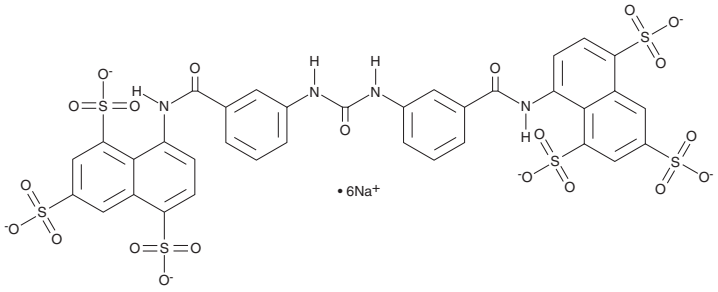
PRODUCT INFORMATION

NF 023

Item No. 17234

CAS Registry No.:	104869-31-0
Formal Name:	8,8′-[carbonylbis(imino-3,1-phenylenecarbonylimino)]*bis*-1,3,5-naphthalenetrisulfonic acid, hexasodium salt
MF:	$C_{35}H_{20}N_4O_{21}S_6 \bullet 6Na$
FW:	1,162.9
Purity:	≥90%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

NF 023 is supplied as a solid. A stock solution may be made by dissolving the NF 023 in water. The solubility of NF 023 in water is approximately 100 mM. We do not recommend storing the aqueous solution for more than one day.

Description

NF 023 is a purinergic $P2X_1$ receptor antagonist (IC_{50} = 0.21 µM).[1] It is selective for $P2X_1$ over $P2X_{2-4}$ receptors (IC_{50}s = >50, 28.9 and >100 µM, respectively). It inhibits α,β-methylene ATP-induced vasoconstriction in isolated rabbit saphenous arteries (pA_2 = 5.69).[2] NF 023 also inhibits hepatitis C virus (HCV) NS3 helicase (IC_{50} = 6.2 µM).[3]

References

1. Soto, F., Lambrecht, G., Nickel, P., *et al.* Antagonistic properties of the suramin analogue NF023 at heterologously expressed P2X receptors. *Neuropharmacology* **38(1)**, 141-149 (1999).
2. Ziyal, R., Ziganshin, A.U., Nickel, P., *et al.* Vasoconstrictor responses via P2X-receptors are selectively antagonized by NF023 in rabbit isolated aorta and saphenous artery. *Br. J. Pharmacol.* **120(5)**, 954-960 (1997).
3. Mukherjee, S., Hanson, A.M., Shadrick, W.R., *et al.* Identification and analysis of hepatitis C virus NS3 helicase inhibitors using nucleic acid binding assays. *Nucleic Acids Res.* **40(17)**, 8607-8621 (2021).

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