

Product Name: NF 279

Catalog No.: 1199

Batch No.: 8

CAS Number: 202983-32-2

IUPAC Name: 8,8'-[Carbonylbis(imino-4,1-phenylenecarbonylimino-4,1-phenylenecarbonylimino)]bis-1,3,5-naphthalenetrisulfonic acid hexasodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₉H₃₀N₆Na₆O₂₃S₆

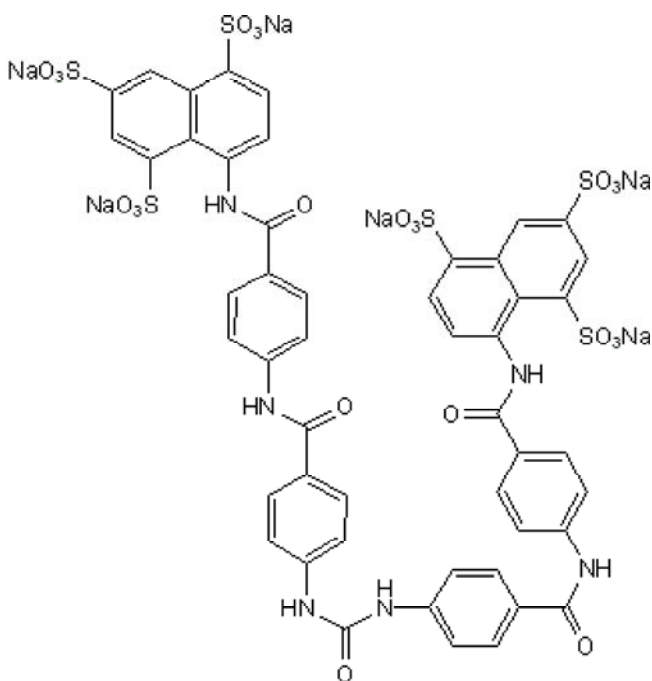
Batch Molecular Weight: 1401.1

Physical Appearance: White solid

Solubility: water to 25 mg/ml

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Net product content: 78%

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: NF 279

Catalog No.: 1199

Batch No.: 8

CAS Number: 202983-32-2

IUPAC Name: 8,8'-[Carbonylbis(imino-4,1-phenylenecarbonylimino-4,1-phenylenecarbonylimino)]bis-1,3,5-naphthalenetrisulfonic acid hexasodium salt

Description:

NF 279 is a potent and selective P2X₁ antagonist (IC₅₀ = 19 nM). Displays good selectivity over P2X₂ (IC₅₀ = 0.76 μM), P2X₃ (IC₅₀ = 1.62 μM), P2X₄ (IC₅₀ > 300 μM), P2Y receptors and ectonucleotidases. This product is supplied with a high degree of hydration and some residual NaCl, the amount of which are batch dependent. Please refer to the Certificate of Analysis to obtain the batch specific Net Product Content.

Physical and Chemical Properties:

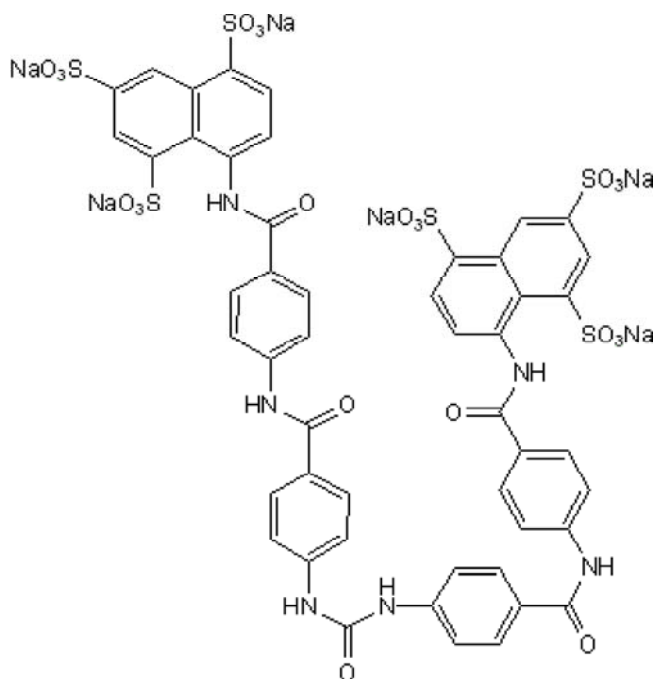
Batch Molecular Formula: C₄₉H₃₀N₆Na₆O₂₃S₆

Batch Molecular Weight: 1401.1

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 25 mg/ml

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Klapperstuck et al (2000) Antagonism by the suramin analogue NF 279 on human P2X₁ and P2X₇ receptors. *Eur.J.Pharmacol.* **387** 245. PMID: 10650169.

Rettinger et al (2000) The suramin analogue NF279 is a novel and potent antagonist selective for the P2X₁ receptor. *Neuropharmacology* **39** 2044. PMID: 10963748.

Damer et al (1998) NF279: a novel potent and selective antagonist of P2X receptor-mediated responses. *Eur.J.Pharmacol.* **350** R5. PMID: 9683026.

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956