



Certificate of Analysis

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Product Name: NF 279 Catalog No.: 1199 Batch No.: 7

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: $C_{49}H_{30}N_6Na_6O_{23}S_6.21H_2O$

Batch Molecular Weight: 1779.4192

Physical Appearance: White solid

Solubility: water to 25 mM

DMSO to 10 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

1H NMR: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 33.07 4.72 Found 32.98 4.68

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





Product Information

Print Date: Apr 28th 2015

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acid hexasodium salt

Description:

A potent and selective P2X₁ antagonist (IC₅₀ = 19 nM). Displays good selectivity over P2X₂,(IC₅₀ = 0.76 μ M), P2X₃ (IC₅₀ = 1.62 μ M), P2X₄ (IC₅₀ > 300 μ M), P2Y receptors and ectonucleotidases.

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Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 25 mM DMSO to 10 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

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

Klapperstuck *et al* (2000) Antagonism by the suramin analogue NF 279 on human $P2X_1$ and $P2X_7$ 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.

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