

Product Name: NF 340

Catalog No.: 3830

Batch No.: 3

CAS Number: 202982-98-7

IUPAC Name: 4,4'-(Carbonylbis(imino-3,1-(4-methyl-phenylene)carbonylimino))bis(naphthalene-2,6-disulfonic acid) tetrasodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₇H₂₆N₄Na₄O₁₅S₄·16H₂O

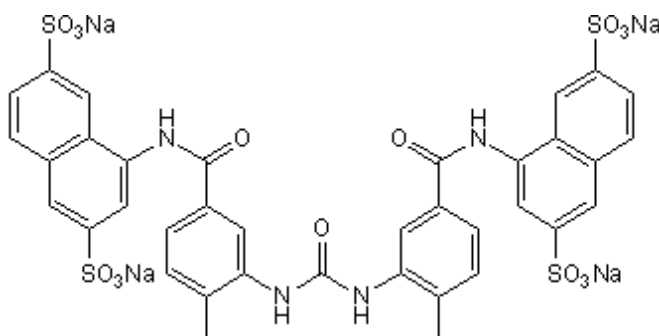
Batch Molecular Weight: 1275

Physical Appearance: Beige solid

Solubility: water to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 95.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	34.85		4.39
Found	34.83		4.4

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Description:

P2Y₁₁ antagonist; exhibits 520-fold selectivity for P2Y₁₁ over P2Y₁, P2Y₂, P2Y₄, P2Y₆ and P2Y₁₂ receptors. Displays competitive antagonism against ATPγS (pIC₅₀ values are 6.43 and 7.14 in Ca²⁺ and cAMP assays respectively).

Physical and Chemical Properties:

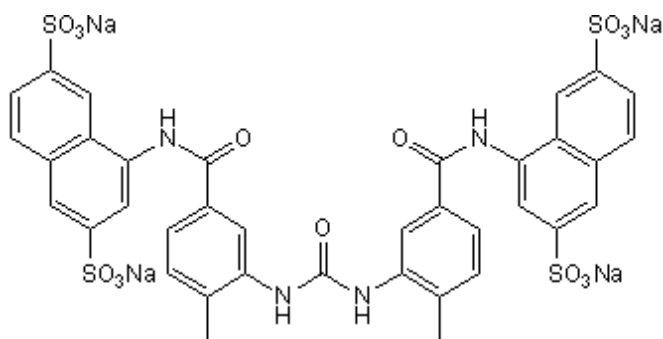
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Batch Molecular Weight: 1275

Physical Appearance: Beige solid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 20 mM

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:

Meis et al (2010) NF546 [4,4'-(carbonylbis(imino-3,1-phenylene-carbonylimino-3,1-(4-methyl-phenylene)-carbonylimino))-bis(1,3-xylene-γ,γ'-diphosphonic acid) tetrasodium salt] is a non-nucleotide P2Y₁₁ agonist and stimulates release of interleukin-8 from human monocyte-derived dendritic cells. *J.Pharmacol.Exp.Ther.* **332** 238. PMID: 19815812.

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