# Certificate of Analysis



**Product Name:** **NF 157** **Catalog No.: 2450** **Batch No.: 3**

CAS Number: 104869-26-3

IUPAC Name: 8,8'-[Carbonyl*bis*[imino-3,1-phenylenecarbonylimino(4-fluoro-3,1-phenylene)carbonylimino]] *bis*-1,3,5-naphthalenetrisulfonic acid hexasodium salt

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_{49}H_{28}F_2N_6Na_6O_{23}S_6$

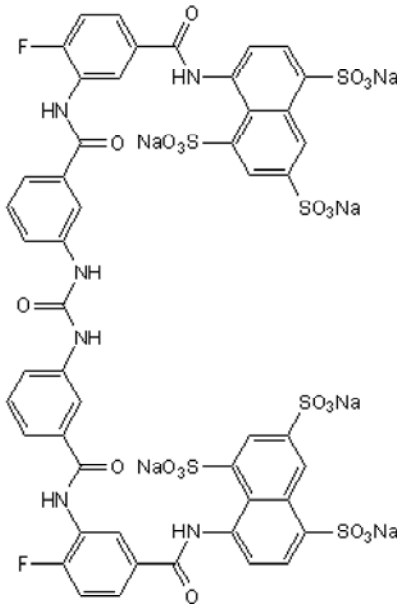
**Batch Molecular Weight:** 1437.08

**Physical Appearance:** Pink solid

**Solubility:** water to 5 mg/ml
DMSO to 10 mg/ml

**Storage:** Desiccate at RT

**Batch Molecular Structure:**




## 2. ANALYTICAL DATA

**HPLC:** Shows 92.9% purity

**$^1$H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure



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# Product Information



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**Description:**

NF 157 is a purinergic receptor antagonist that potently inhibits $P2Y_{11}$ receptor activity ($IC_{50}$ = 463 nM). Displays selectivity for $P2Y_{11}$ and $P2X_1$ receptors over $P2Y_1$, $P2Y_2$ , $P2X_2$, $P2X_3$, $P2X_4$ and $P2X_7$ receptors. Inhibits $NAD^+$-induced activation of human granulocytes. 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 and the maximum solubility threshold to use in dilution calculations. Please see product specific page on www.tocris.com for full description.

**Physical and Chemical Properties:**

Batch Molecular Formula: $C_{49}H_{28}F_2N_6Na_6O_{23}S_6$

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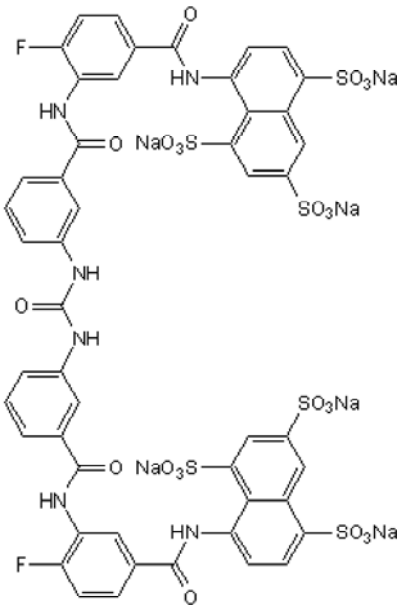
Physical Appearance: Pink solid

**Batch Molecular Structure:**




**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 5 mg/ml
DMSO to 10 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:**

**Moreschi** *et al* (2006) Extracellular $NAD^+$ is an agonist of the human $P2Y_{11}$ purinergic receptor in human granulocytes. J.Biol.Chem. ***281*** 31419. PMID: 16926152.

**Ullmann** *et al* (2005) Synthesis and structure-activity relationships of suramin-derived $P2Y_{11}$ receptor antagonists with nanomolar potency. J.Med.Chem. ***48*** 7040. PMID: 16250663.