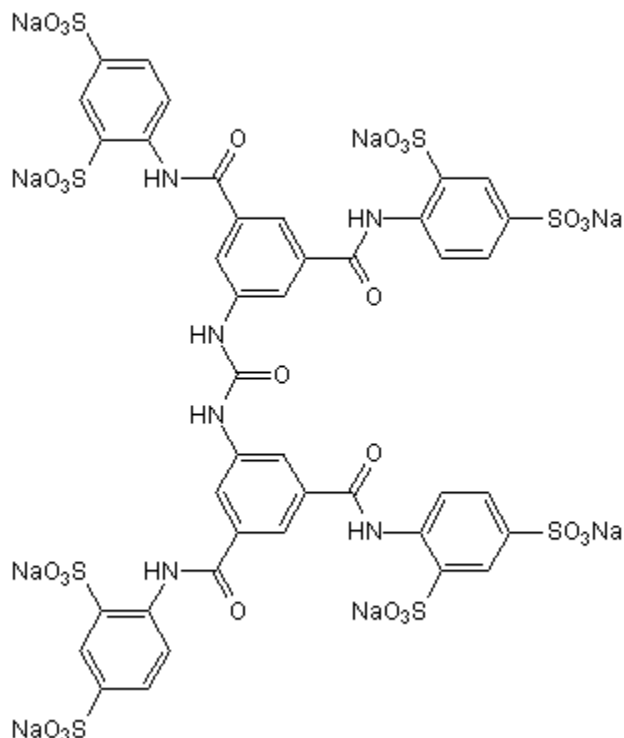


NF 449

Cat. No. 1391



Chemical Name: 4,4',4'',4'''-[Carbonylbis(imino-5,1,3-benzenetriyl-bis(carbonylimino))]tetrakis-1,3-benzenedisulfonic acid, octasodium salt

Biological Activity

Potent purinergic receptor antagonist that displays high selectivity for P2X₁ (IC₅₀ values are 0.28, 0.69, 120, 1820, 47000 and > 300000 nM for rP2X₁, rP2X₁₊₅, rP2X₂₊₃, rP2X₃, rP2X₂ and P2X₄ receptors respectively). Provides antithrombotic protection *in vivo*. Also acts as a G_{su}-selective antagonist.

Technical Data

M.Wt:

1505.06

Formula:

C₄₁H₂₄N₆Na₈O₂₉S₈

Solubility:

Soluble to 50 mM in water

Storage:

Store at RT

CAS No:

389142-38-5

Phone: (800) 343-7475 (612) 379-2956

Fax: (612) 656-4400

Email: customerservice@rndsystems.com

The technical data provided above is for guidance only.

For batch specific data refer to the Certificate of Analysis.

References

Hohenegger *et al* (1998) G_{sq}-selective G protein antagonists. Proc.Natl.Acad.Sci.U.S.A. **95** 346. PMID: [9419378](#).

Hechler *et al* (2005) Inhibition of platelet functions and thrombosis through selective or non-selective inhibition of the platelet P2 receptors with increasing doses of NF449 [4,4',4'',4'''-(carbonylbis(imino-5,1,3-benzenetriylbis-(carbonylimino)))tetrakis-benzene-1,3-disulfonic acid octasodium salt]. J.Pharmacol.Exp.Ther. **314** 232. PMID: [15792995](#).

Rettinger *et al* (2005) Profiling at recombinant homomeric and heteromeric rat P2X receptors identifies the suramin analogue NF449 as a highly potent P2X₁ receptor antagonist. Neuropharmacology. **48** 461. PMID: [15721178](#).

Fleming *et al* (2011) Chemical modulators of autophagy as biological probes and potential therapeutics. Nat.Chem.Biol. **7** 9. PMID: [21164513](#).

If you know of a relevant citation for this product [please let us know](#).

Keywords: NF 449, supplier, selective, P2X1, antagonists, Receptors, Purinergic, purinoceptors, NF449

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