NF449 (sodium salt)

Item No. 13324

CAS Registry No.: 627034-85-9
Formal Name: 4,4',4'',4'''-[carbonylbis(imino-5,1,3-benzenetriylbiscarbonylimino)]tetrakis-1,3-benzenedisulfonic acid, octasodium salt
MF: C41H24N6O29S8 • 8Na
FW: 1,505.1
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_max: 277 nm

Laboratory Procedures

For long term storage, we suggest that NF449 (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

NF449 (sodium salt) is supplied as a crystalline solid. NF449 (sodium salt) is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. For biological experiments, we suggest that organic solvent-free aqueous solutions of NF449 (sodium salt) be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of NF449 (sodium salt) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

NF449 is an analog of suramin that selectively inhibits P2X purinergic receptors (pIC50 = 6.3) with a potency 19-fold greater than at P2X₂, P2Y₁, P2Y₂, or P2Y₁₁. Through selective inhibition of the P2X₁ receptor, 10 mg/kg NF449 has been used to decrease intravascular platelet aggregation in a mouse model of systemic thromboembolism. NF449 has also demonstrated selective antagonism of the G_α₄-subunit G protein, which suppresses the association rate of GTPγS binding to G_α₄₅. It inhibits the stimulation of adenylyl cyclase activity, and blocks G protein coupling to certain GPCRs.

References


Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/13324](http://www.caymanchem.com/catalog/13324)

**WARNING:** THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SafETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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