

2'(3')-ANT-GTP tetrasodium

Chemical Properties

CAS No. :

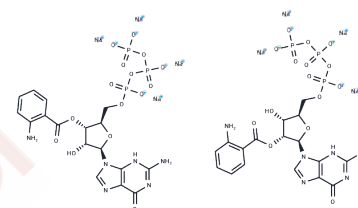
Formula: C₁₇H₁₇N₆O₁₅P₃.4Na

Molecular Weight: 730.23

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|--|
| Description | 2'(3')-O-Anthraniloylguanosine-5'-O-triphosphate (2'-ANT-GTP) and 3'-ANT-GTP are fluorescent derivatives of GTP that exhibit spontaneous isomerization. 2'(3')-ANT-GTP features an emission peak at 428 nm when excited at 330 nm in aqueous conditions. It functions as an inhibitor of several adenylyl cyclases, notably mammalian adenylyl cyclase 1 (AC1; $K_i = 10$ nM with manganese), inhibits B. anthracis adenylyl cyclase toxin edema factor ($K_i = 4.1$ and 13 μ M with manganese and magnesium, respectively), and B. pertussis adenylyl cyclase toxin CyaA ($K_i = 29$ μ M with manganese). |
| Targets(IC50) | Others |

Solubility Information

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|------------|---|
| Solubility | H ₂ O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 1.3694 mL | 6.8472 mL | 13.6943 mL |
| 5 mM | 0.2739 mL | 1.3694 mL | 2.7389 mL |
| 10 mM | 0.1369 mL | 0.6847 mL | 1.3694 mL |
| 50 mM | 0.0274 mL | 0.1369 mL | 0.2739 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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