

Product Name: BzATP triethylammonium salt

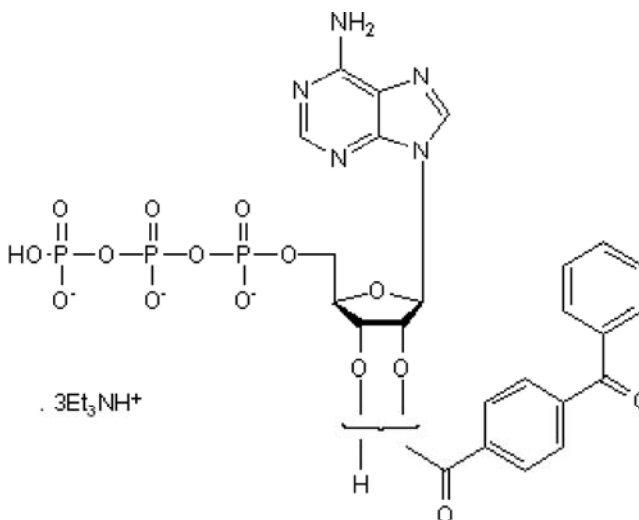
Catalog No.: 3312

Batch No.: 9

IUPAC Name: 2'(3')-O-(4-Benzoylbenzoyl)adenosine-5'-triphosphate tri(triethylammonium) salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₄N₅O₁₅P₃.C₁₈H₄₅N₃
Batch Molecular Weight: 1018.97
Physical Appearance: Colourless liquid
Solubility: Soluble in water (supplied pre-dissolved at a concentration of 5mM)
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 2'(3')-O-(4-Benzoylbenzoyl)adenosine-5'-triphosphate tri(triethylammonium) salt

Description:

Prototypic P2X₇ receptor agonist (EC₅₀ values are 3.6, 7 and 285 μM for rat, human and mouse receptors respectively). Exhibits 5 - 10 fold greater potency than ATP. Exhibits partial agonist activity at P2X₁ (pEC₅₀ = 8.7) and P2Y₁ receptors and can be used as a photoaffinity label for ATPase. This compound is a mixture of isomers.

Physical and Chemical Properties:

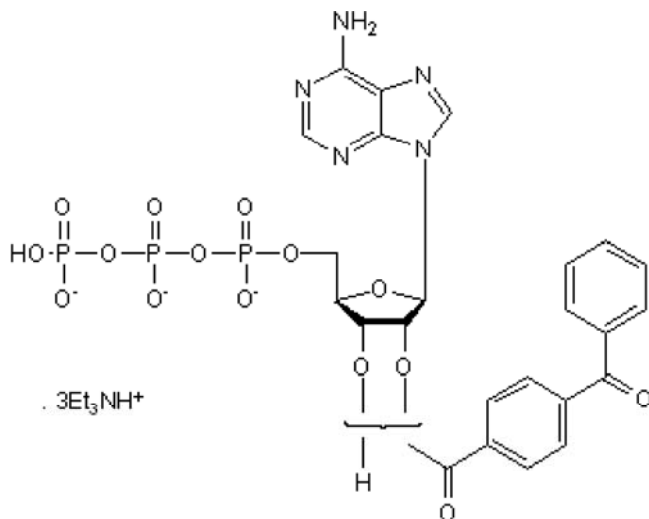
Batch Molecular Formula: C₂₄H₂₄N₅O₁₅P₃.C₁₈H₄₅N₃

Batch Molecular Weight: 1018.97

Physical Appearance: Colourless liquid

Minimum Purity: >95%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in water (supplied pre-dissolved at a concentration of 5mM)

This compound is a mixture of isomers. This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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:

Young et al (2007) Amino acid residues in the P2X₇ receptor that mediate differential sensitivity fo ATP and BzATP. *Mol.Pharmacol.* **71** 92. PMID: 17032903.

Michel et al (2001) Serum constituents can effect 2'- & 3'-O-(4-benzoylbenzoyl)-ATP potency at P2X₇ receptors. *Br.J.Pharmacol.* **132** 1501. PMID: 11264244.

Zhong et al (1998) Pharmacological and molecular characterization of P2X receptors in rat pelvic ganglion neurons. *Br.J.Pharmacol.* **125** 771. PMID: 9831914.

Surprenant et al (1996) The cytolitic P_{2Z} receptor for extracellular ATP identified as a P_{2X} receptor (P2X₇). *Science.* **272** 735. PMID: 8614837.

Williams and Coleman (1982) Exploring the adenine nucleotide binding sites on mitochondrial F1-ATPase with a new photoaffinity probe, 3'-O-(4-Benzoyl)benzoyl adenosine 5'-triphosphate. *J.Biol.Chem.* **257** 2834. PMID: 6460764.

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