

Product Name: BzATP triethylammonium salt

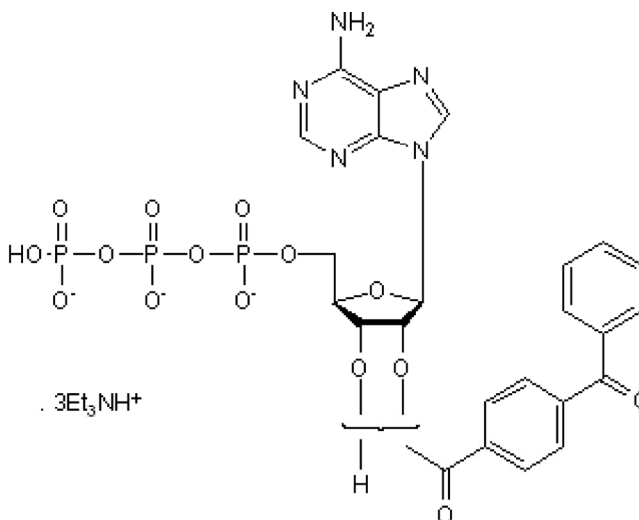
Catalog No.: 3312

Batch No.: 14

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 to slightly yellow 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 96.6% purity
Mass Spectrum: Consistent with structure

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

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Description:

BzATP triethylammonium salt is a 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:

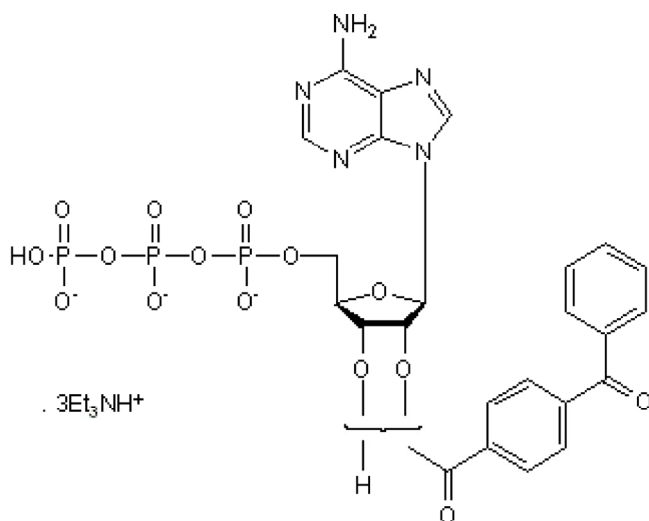
Batch Molecular Formula: C₂₄H₂₄N₅O₁₅P₃.C₁₈H₄₅N₃

Batch Molecular Weight: 1018.97

Physical Appearance: Colourless to slightly yellow 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 dissolved in water at a concentration of 5mM

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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