

**Product Name:** BzATP triethylammonium salt

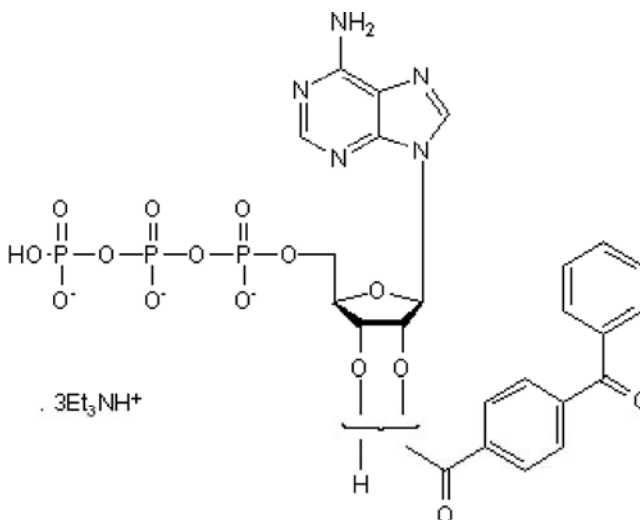
**Catalog No.:** 3312

**Batch No.:** 12

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>24</sub>N<sub>5</sub>O<sub>15</sub>P<sub>3</sub>.C<sub>18</sub>H<sub>45</sub>N<sub>3</sub>  
**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 97.3% purity  
**Mass Spectrum:** Consistent with structure

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**Description:**

BzATP triethylammonium salt is a prototypic P2X<sub>7</sub> receptor agonist (EC<sub>50</sub> 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 P2X<sub>1</sub> (pEC<sub>50</sub> = 8.7) and P2Y<sub>1</sub> receptors and can be used as a photoaffinity label for ATPase. This compound is a mixture of isomers.

**Physical and Chemical Properties:**

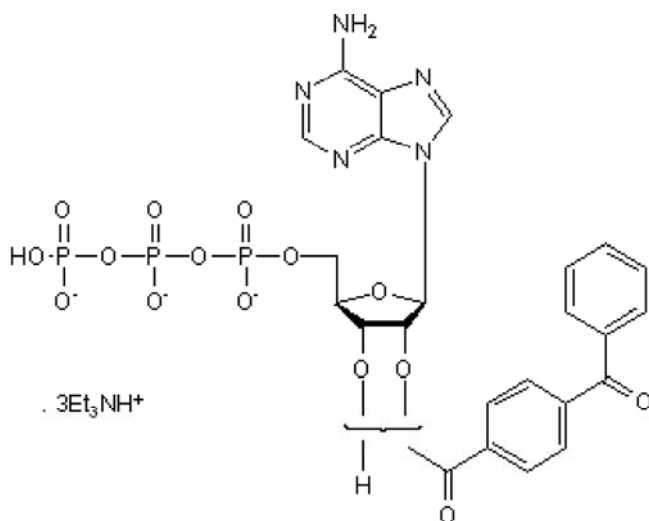
Batch Molecular Formula: C<sub>24</sub>H<sub>24</sub>N<sub>5</sub>O<sub>15</sub>P<sub>3</sub>.C<sub>18</sub>H<sub>45</sub>N<sub>3</sub>

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 P2X<sub>7</sub> 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 P2X<sub>7</sub> 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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