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# DATASHEET

## BzATP triethylammonium salt

### Product overview

<b>Name</b>	BzATP triethylammonium salt
<b>Cat No</b>	HB1986
<b>Biological action</b>	Agonist
<b>Purity</b>	>95%
<b>Description</b>	Prototypic P2X <sub>7</sub> receptor agonist

### Biological Data

**Biological description** Prototypic P2X<sub>7</sub> receptor agonist (EC<sub>50</sub> = 3.6, 7 and 285 μM at rat, human and mouse receptors respectively). 5-10 times more potent than ATP at activating P2X<sub>7</sub> receptors. Additionally shows activity at other P2 receptor (pEC<sub>50</sub> values are 8.7, 7.1 and 6.1 at P2X<sub>1</sub>, P2X<sub>3</sub>, P2X<sub>2/3</sub> respectively).

Also acts as an ATPase photoaffinity label. Evokes intracellular Yo-Pro-1 (Oxazole Yellow) accumulation.

### Solubility & Handling

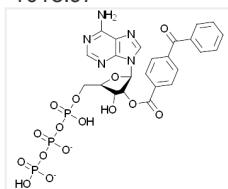
<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in water
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

**Chemical name** 2'(3')-O-(4-Benzoylbenzoyl)adenosine- 5'-triphosphate tri(triethylammonium) salt

**Molecular Weight** 1018.97

**Chemical structure**



**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>

**CAS Number** 112898-15-4

**PubChem identifier** 71308559

**SMILES**

NC1=C2C(N([C@@H]3O[C@H](COP(OP(OP(O)([O-])=O)([O-])=O)([O-])=O)[C@@H](OC(C4=CC=C(C(C5=CC=CC=C5)=O)C=C4)=O)[C@H]3O)C=N2)=NC=N1.CC[NH+](CC)CC.CC[NH+](CC)CC.CC[NH+](CC)CC.NC6=C7C(N([C@@H]8O[C@H](COP(OP(OP(O)([O-])=O)([O-])=O)([O-])=O)[C@@H](O)[C@H]8OC(C9=CC=C(C(C%10=CC=CC=C%10)=O)C=C9)=O)C=N7)=NC=N6.CC[NH+](CC)CC.CC[NH+](CC)CC.CC[NH+](CC)CC

**InChi**

InChI=1S/C24H24N5O15P3.C6H15N/c25-21-17-22(27-11-26-21)29(12-28-17)23-19(31)20(16(41-23)10-40-46(36,37)44-47(38,39)43-45(33,34)35)42-24(32)15-8-6-14(7-9-15)18(30)13-4-2-1-3-5-13;1-4-7(5-2)6-3/h1-9,11-12,16,19-20,23,31H,10H2,(H,36,37)(H,38,39)(H2,25,26,27)

**InChiKey**

HVOVBTNCGADRTH-WBLDMZOZSA-N

**MDL number**

MFCD00058547

## References

### Amino acid residues in the P2X7 receptor that mediate differential sensitivity to ATP and BzATP

Young et al. (2007) Mol Pharmacol. 92-100

**PubMedID** [17032903](#)

### The cytolytic P2Z receptor for extracellular ATP identified as a P2X receptor (P2X7)

Surprenant et al (1996) Science. 5262

**PubMedID** [8614837](#)

### Pharmacological and molecular characterization of P2X receptors in rat pelvic ganglion neurons

Zhong et al (1998) Br J Pharmacol. 771-81

**PubMedID** [9831914](#)

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