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DATASHEET

BzATP triethylammonium salt

Product overview

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

Biological Data

Biological description Prototypic P2X₇ receptor agonist (EC₅₀ = 3.6, 7 and 285 μM at rat, human and mouse receptors respectively). 5-10 times more potent than ATP at activating P2X₇ receptors. Additionally shows activity at other P2 receptor (pEC₅₀ values are 8.7, 7.1 and 6.1 at P2X₁, P2X₃, P2X_{2/3} respectively).

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

Solubility & Handling

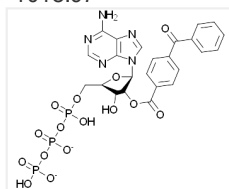
Storage instructions	-20 °C
Solubility overview	Soluble in water
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

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

Molecular Weight 1018.97

Chemical structure



Molecular Formula C₂₄H₂₄N₅O₁₅P₃·C₁₈H₄₅N₃

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](#)
