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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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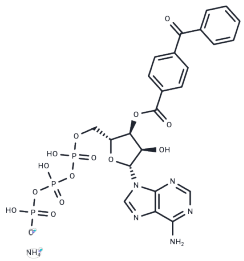
Data Sheet (Cat.No.TP2226)

TargetMol

BzATP triethylammonium salt

Chemical Properties



CAS No. : 112898-15-4

Formula: C24H24N5O15P3¡¤C18H45N3

Molecular Weight: 1018.96

Appearance: no data available

Storage: store at low temperature,keep away from moisture, store under nitrogen
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	BzATP triethylammonium salt is a P2X7 receptor agonist.
Targets(IC50)	P2X Receptor
In vitro	**METHODS**: Glioma cell lines U87 and U251 were treated with BzATP triethylammonium salt (5-1000 μM) for 2-72 h. Cell proliferation was detected by MTT assay. **RESULTS**: Proliferation of glioma cell lines U87 and U251 was significantly increased in the presence of BzATP. the peak fine cell proliferation of both U87 and U251 cell lines was 100 μM BzATP, and the optimal incubation time was 24 h for both cell lines [1]. **METHODS**: Retinal ganglion cells were treated with BzATP triethylammonium salt (50 μM) for 2 min and intracellular Ca2+ levels were measured. **RESULTS**: The P2X7 agonist BzATP resulted in a rapid increase in intracellular Ca2+ and the level remained elevated for 2 min after agonist application. More than 80% of the examined cells responded strongly to BzATP. [2]
In vivo	**METHODS**: To investigate the effects on whole-body energy metabolism, BzATP triethylammonium salt (1 mg/kg) was administered intraperitoneally to C57BL/6J mice once daily for seven days. **RESULTS**: BzATP triethylammonium salt increased metabolic rate and O2 consumption while decreasing respiratory rate and upregulating NADPH oxidase 2 in gastrocnemius and tibialis anterior muscle.The findings suggest that activation of P2X7 has a significant effect on energy homeostasis and muscle metabolism. [3]

Solubility Information

Solubility	H2O: 50 mg/mL (49.06 mM),Sonification is recommended. DMSO: 50 mg/mL (49.06 mM),Sonification is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9814 mL	4.907 mL	9.8139 mL
5 mM	0.1963 mL	0.9814 mL	1.9628 mL
10 mM	0.0981 mL	0.4907 mL	0.9814 mL
50 mM	0.0196 mL	0.0981 mL	0.1963 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Ji Z, et al. Involvement of P2X7 Receptor in Proliferation and Migration of Human Glioma Cells. Biomed Res Int. 2018 Jan 9;2018:8591397.