8-Bromo-ATP

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-134262 23567-97-7 C ₁₀ H ₁₅ BrN ₅ O ₁₃ P ₃ 586.08 P2X Receptor Membrane Transporter/Ion Channel Please store the product under the recommended conditions in the Certificate of Analysis.	
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Product Data Sheet

Description	8-Bromo-ATP (8-Bromoadenosine 5'-triphosphate), an ATP analogue, is a purinergic P2X receptor agonist. 8-Bromo-ATP shows cytotoxic to multiple myeloma cells with an IC_{50} of 23.1 μ M ^{[1][2][3]} .		
In Vitro	8-Bromo-ATP (10-50 μM; 5 days) treatment shows cytotoxic to multiple myeloma ^[3] . Fluorescence measurements are made possible through the use of 8-Bromo-ATP, which selectively quenched certain tryptophan residues of the ATPase. 8-Bromo-ATP enhances the rate of dephosphorylation of native ATPase 2-3-fold when added in the absence of divalent cations ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[3]		
	Cell Line:	MM 1.s cells	
	Concentration:	10 μΜ, 20 μΜ, 30 μΜ, 40 μΜ, 50 μΜ	
	Incubation Time:	5 days	
	Result:	Showed cytotoxic to multiple myeloma.	

REFERENCES

[1]. Howson, W, et al. Synthesis and biological evaluation of ATP analogues acting at putative purinergic P2X-receptors (on the guinea pig bladder). Eur. J. Med. Chem. 23(5), 433-439 (1988).

[2]. P Champeil, et al. ATP regulation of sarcoplasmic reticulum Ca2+-ATPase. Metal-free ATP and 8-bromo-ATP bind with high affinity to the catalytic site of phosphorylated ATPase and accelerate dephosphorylation. J Biol Chem. 1988 Sep 5;263(25):12288-94.

[3]. Li Wang, et al. Cationic phospholiposomes: efficient delivery vehicles of anticancer derivatives of ATP to multiple myeloma cells. J Liposome Res. 2011 Dec;21(4):306-14.

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Caution: Product has not been fully validated for medical applications. For research use only.

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