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DATASHEET

8-Bromo-cAMP sodium salt (8-Br-cAMP)

Product overview

Name	8-Bromo-cAMP sodium salt (8-Br-cAMP)
Cat No	HB0090
Biological action	Activator
Purity	>99%
Description	Cell permeable PKA activator

Images



Biological Data

Biological description	Cell-permeable protein kinase A (PKA) activator. cAMP analog which has increased metabolic stability and membrane permeability compared with cAMP. Activates cAMP-dependent protein kinase with long-acting effects due to its resistance to cAMP phosphodiesterase (PDE). Enhances the induction of pluripotency in human fibroblast cells by improving the reprogramming efficiency of human neonatal foreskin fibroblast (HFF1) cells in combination with VPA (valproic acid). In combination with IBMX , also promotes the differentiation of human iPS cell-derived intestinal epithelial cells
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Solubility & Handling

Storage instructions	-20 °C (desiccate)
Solubility overview	Soluble in water (100mM)
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	8-Bromoadenosine-3',5'-cyclic monophosphate sodium salt
Molecular Weight	430.09
Chemical structure	

Molecular Formula	C ₁₀ H ₁₀ BrN ₅ NaO ₆ P
CAS Number	76939-46-3
PubChem identifier	23702958
SMILES	[Na+].[H][C@@]12COP([O-])(=O)O[C@@]1([H])[C@@H](O)[C@@H](O2)N1C(Br)=NC2=C1N=CN=C2N
InChiKey	DMRMZQATXPQOTP-GWTDSMLYSA-M
MDL number	MFCD00005844

References

A cyclic AMP analog, 8-Br-cAMP, enhances the induction of pluripotency in human fibroblast cells.

Wang Y *et al* (2011) Stem Cell Rev 7(2)

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Antidepressant-like activity of 8-Br-cAMP, a PKA activator, in the forced swim test.

Brański P *et al* (2008) J Neural Transm 115(6)

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Dual effects of 8-Br-cAMP on differentiation and apoptosis of human esophageal cancer cell line Eca-109.

Wang HM *et al* (2005) World J Gastroenterol 11(41)

PubMedID [16425431](#)
