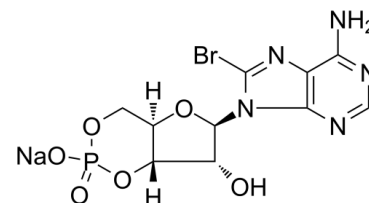


Data Sheet

Product Name:	8-Bromo-cAMP sodium salt
Cat. No.:	CS-0011049
CAS No.:	76939-46-3
Molecular Formula:	C ₁₀ H ₁₀ BrN ₅ NaO ₆ P
Molecular Weight:	430.08
Target:	PKA
Pathway:	Protein Tyrosine Kinase/RTK; Stem Cell/Wnt
Solubility:	H ₂ O : ≥ 33.33 mg/mL (77.50 mM); DMSO : 125 mg/mL (290.64 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

8-Bromo-cAMP sodium salt (8-Br-Camp sodium salt), a cyclic AMP analog, is an activator of cyclic AMP-dependent protein kinase (PKA)^[1]. IC₅₀ & Target: PKA^[1] **In Vitro:** 8-Bromo-cAMP sodium salt is a brominated derivative of cyclic AMP. 8-Bromo-cAMP sodium salt enhances the efficiency of cellular reprogramming. 8-Bromo-cAMP sodium salt improves the reprogramming efficiency of human neonatal foreskin fibroblast (HFF1) cells. 8-Bromo-cAMP sodium salt inhibits proliferation, induce differentiation and apoptosis in a malignant glioma cell line (A-172) and an esophageal cancer cell line (Eca-109)^[1].

References:

[1]. Wang Y, et al. A cyclic AMP analog, 8-Br-cAMP, enhances the induction of pluripotency in human fibroblast cells. Stem Cell Rev. 2011 Jun;7(2):331-41.

CAIndexNames:

Adenosine, 8-bromo-, cyclic 3',5'-(hydrogen phosphate), sodium salt (1:1)

SMILES:

BrC1=NC2=C(N=CN=C2N)N1[C@H](O[C@@](CO3)([H])[C@@]4([H])OP3(O[Na])=O)[C@@H]4O

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

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