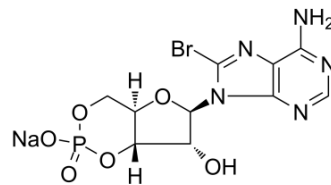


8-Bromo-cAMP sodium salt

Cat. No.:	HY-12306		
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		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



Solvent & Solubility

In Vitro	DMSO : 125 mg/mL (290.64 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.3251 mL	11.6257 mL	23.2515 mL
		5 mM		0.4650 mL	2.3251 mL	4.6503 mL
		10 mM		0.2325 mL	1.1626 mL	2.3251 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.84 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.84 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.84 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	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] .
IC ₅₀ & 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.

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

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