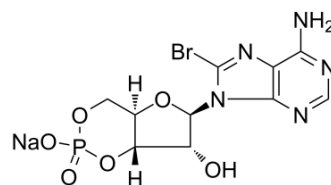


8-Bromo-cAMP sodium salt

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)
 H₂O : ≥ 33.33 mg/mL (77.50 mM)
 * "≥" means soluble, but saturation unknown.

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

- 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
- 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
- Add each solvent one by one: 10% DMSO >> 90% corn oil
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].

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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Hum Reprod. 2021 Jan 1;36(1):145-159.

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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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