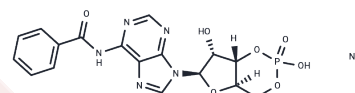


## 6-Bnz-cAMP sodium salt

## Chemical Properties

CAS No. :	1135306-29-4
Formula:	C <sub>17</sub> H <sub>16</sub> N <sub>5</sub> NaO <sub>7</sub> P
Molecular Weight:	456.3
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	6-Bnz-cAMP is a PKA-selective activator. It regulates the PKA dependent signaling pathways. The proliferative signaling pathway which activated by the 6-Bnz-cAMP involves activation of the epidermal growth factor receptor and ERK1/2. Extending the duration of PKA-dependent ERK1/2 activation and converted cAMP from a proliferative into an anti-proliferative, neurite outgrowth- promoting signal.
Targets(IC50)	Others,PKA
In vitro	6-Bnz-cAMP can promote not only differentiation and mineralization but also initial cell adhesion.6-Bnz-cAMP is able to induce osteogenic differentiation of MC3T3-E1 cells. Moreover, 6-Bnz-cAMP may facilitate release kinetic from a tissue-engineered polymeric scaffold system. It also can serve as a novel bone-inducing growth factor for repairing and regenerating bone tissues during bone regenerative engineering.

## Solubility Information

Solubility	H <sub>2</sub> O: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1915 mL	10.9577 mL	21.9154 mL
5 mM	0.4383 mL	2.1915 mL	4.3831 mL
10 mM	0.2192 mL	1.0958 mL	2.1915 mL
50 mM	0.0438 mL	0.2192 mL	0.4383 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481