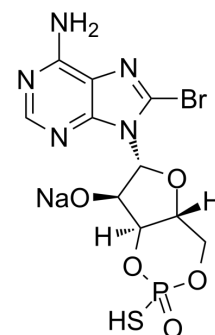


## Sp-8-Br-cAMPS sodium

Cat. No.:	HY-137640A
CAS No.:	1573115-90-8
Molecular Formula:	C <sub>10</sub> H <sub>10</sub> BrN <sub>5</sub> NaO <sub>5</sub> PS
Molecular Weight:	446.15
Target:	PKA
Pathway:	Stem Cell/Wnt; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Sp-8-Br-cAMPS sodium is a cAMP analog, which performs a protein kinase A (PKA) activating activity with EC <sub>50</sub> of 360 nM. Sp-8-Br-cAMPS sodium inhibits proliferation of T cells and the haemocyte non-self response in Lepidoptera larve <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	PKA 360 nM (EC50)
<b>In Vitro</b>	Sp-8-Br-cAMPS sodium (0-100 nM) inhibits phagocytosis of <i>X. nematophila</i> and <i>B. subtilis</i> without affecting the number of bacteria per haemocyte type <sup>[1]</sup> . Sp-8-Br-cAMPS sodium (0-1000 μM) inhibits Staphylococcal enterotoxin B (SEB)-induced T-cell activation and expressions of cytokines IFN-γ, TNF-α, IL-2, and IL-4 in a dose-dependent manner through activation of PKA <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Sp-8-Br-cAMPS sodium (50 nM) inhibits protein release from haemocytes, inhibits the bacterial removal from haemolymph without affecting haemocyte viability in <i>G. mellonella</i> larvae <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Brooks CL, et al., Protein kinase A affects *Galleria mellonella* (Insecta: Lepidoptera) larval haemocyte non-self responses. *Immunol Cell Biol.* 2005 Apr;83(2):150-9.
- [2]. Aandahl EM, et al., Inhibition of antigen-specific T cell proliferation and cytokine production by protein kinase A type I. *J Immunol.* 2002 Jul 15;169(2):802-8.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA