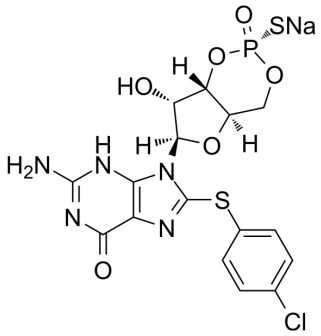
Rp-8-pCPT-cGMPS sodium

Cat. No.:	HY-110221
CAS No.:	208445-07-2
Molecular Formula:	$C_{16}H_{14}ClN_5NaO_6PS_2$
Molecular Weight:	525.86
Target:	PKG
Pathway:	Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Rp-8-pCPT-cGMPS sodium is the sodium salt form of Rp-8-pCPT-cGMPS. Rp-8-pCPT-cGMPS is an inhibitor for cGMP-dependent protein kinase (cGK). Rp-8-pCPT-cGMPS sodium is an agonist for cyclic nucleotide-gated (CNG) channels in a voltage-dependent manner[1][2].
In Vivo	Rp-8-pCPT-cGMPS sodium (5 nM, intrathecally, once a day for 3 days) inhibits the cGMP-cGKI pathway, suppresses tumor cell implantation (TCI)-induced thermal hyperalgesia and mechanical allodynia in Sprague-Dawley rats model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Bone cancer pain induced by tumor cell implantation (TCI) in Sprague-Dawley rats[1].
Dosage:	0.5 mmol/L, 20 μL
Administration:	intrathecally, once a day for 3 days
Result:	Delayed and suppressed TCI-induced thermal hyperalgesia and mechanical allodynia.

REFERENCES

[1]. Liu S, et al., cGMP and cGMP-dependent protein kinase I pathway in dorsal root ganglia contributes to bone cancer pain in rats. Spine (Phila Pa 1976). 2014 Sep 1;39(19):1533-41.

[2]. Wei JY, et al., Substituted cGMP analogs can act as selective agonists of the rod photoreceptor cGMP-gated cation channel. J Mol Neurosci. 1998 Feb;10(1):53-64.

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