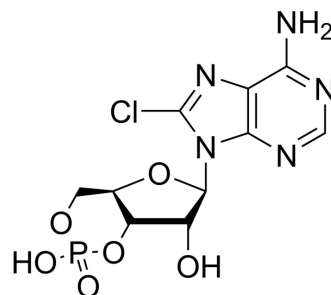


8-Chloro-cAMP

Cat. No.:	HY-123396		
CAS No.:	41941-56-4		
Molecular Formula:	C ₁₀ H ₁₁ ClN ₅ O ₆ P		
Molecular Weight:	363.65		
Target:	PKA		
Pathway:	Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	8-Chloro-cAMP is a cAMP analogue that induces growth arrest, and modulates cAMP-dependent PKA activity. 8-Chloro-cAMP has anticancer activity ^[1] .
In Vitro	8-Chloro-cAMP markedly inhibits vascular smooth muscle cell (VSMC) proliferation in vitro, reduces protein kinase A (PKA) RI α subunit expression, and induces PKA RIIβ subunit expression ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In rat bearing balloon injury, 8-Chloro-cAMP (12 mg/kg) reduces, in a dose-dependent manner, neointimal area and neointima/media ratio after balloon injury. 8-Chloro-cAMP shows a reduction of proliferative activity of VSMCs in vivo ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. C Indolfi, et al. 8-chloro-cAMP inhibits smooth muscle cell proliferation in vitro and neointima formation induced by balloon injury in vivo. J Am Coll Cardiol. 2000 Jul;36(1):288-93.

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

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