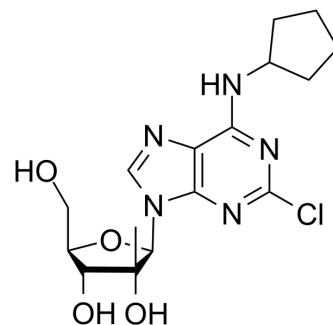


2-Chloro-N-cyclopentyl-2'-C-methyladenosine

Cat. No.:	HY-103180		
CAS No.:	205171-12-6		
Molecular Formula:	C ₁₆ H ₂₂ ClN ₅ O ₄		
Molecular Weight:	383.83		
Target:	Adenosine Receptor		
Pathway:	GPCR/G Protein		
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 : 250 mg/mL (651.33 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6053 mL	13.0266 mL	26.0532 mL
	5 mM	0.5211 mL	2.6053 mL	5.2106 mL
	10 mM	0.2605 mL	1.3027 mL	2.6053 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	2'-MeCCPA is a potent and selective A ₁ adenosine receptors (A ₁ AR) agonist. 2'-MeCCPA efficiently inhibits cAMP modulation in both direct pathway medium spiny neurons (dMSNs) and indirect pathway medium spiny neurons (iMSNs) ^{[1][2]} .
IC₅₀ & Target	A ₁ AR
In Vivo	2'-MeCCPA (1?nM-1 M) at reperfusion significantly reduces infarct size to risk ratio in male Sprague-Dawley rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. J Bhandal, et al. Adenosine a₁ receptor activation can protect the myocardium from ischaemia reperfusion injury post reperfusion. BMJ Journals. Volume 104, Issue Suppl 3.

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