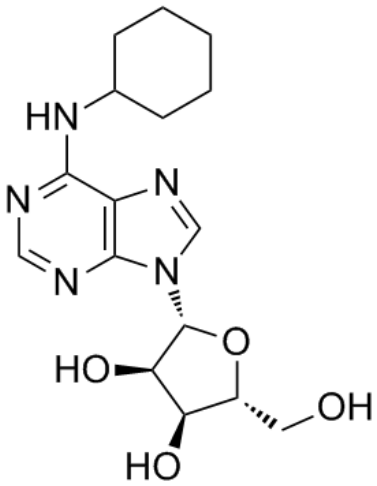
Product Data Sheet

Product Name: N6-Cyclohexyladenosine (CHA)
Cat. No.: GC33667

Chemical Properties

Cas. No.	36396-99-3		
SMILES	OC[C@@H]1[C@H]([C@H]([C@H](N2C=NC3=C2N=CN=C3NC4CCCCC4)O1)O)O		
Formula	$C_{16}H_{23}N_5O_4$	M.Wt	349.38
Solubility	DMSO : ≥ 100 mg/mL (286.22 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

N6-Cyclohexyladenosine is a selective A1 receptor agonist (EC50 = 8.2 nM). IC50 value: 8.2 nM (EC50)Target: A1 receptorin vivo: N6-Cyclohexyladenosine exerts anticonvulsant effects and protects against neuronal death. CHA was also found to inhibit the pressor effects of lumbar sympathetic nerve stimulation in rats.

[1]. Asghari AA, et al. Adenosine A1 receptor agonist, N6-cyclohexyladenosine, protects myelin and induces remyelination in an experimental model of rat optic chiasm demyelination;

Caution: Product has not been fully validated for medical applications. For research use only.
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electrophysiological and histopathological studies. J Neurol Sci. 2013 Feb 15;3