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- Trockeneiszuschlag
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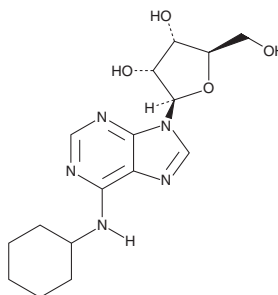
PRODUCT INFORMATION



N⁶-Cyclohexyladenosine

Item No. 28427

CAS Registry No.: 36396-99-3
Formal Name: N-cyclohexyl-adenosine
MF: C₁₆H₂₃N₅O₄
FW: 349.4
Purity: ≥98%
UV/Vis.: λ_{max}: 212, 269 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

N⁶-Cyclohexyladenosine is supplied as a crystalline solid. A stock solution may be made by dissolving the N⁶-cyclohexyladenosine in the solvent of choice, which should be purged with an inert gas. N⁶-Cyclohexyladenosine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of N⁶-cyclohexyladenosine in these solvents is approximately 3, 5, and 20 mg/ml, respectively.

N⁶-Cyclohexyladenosine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, N⁶-cyclohexyladenosine should first be dissolved in DMSO or DMF and then diluted with the aqueous buffer of choice. N⁶-Cyclohexyladenosine has a solubility of approximately 0.14 mg/ml in a 1:6 solution of DMSO:PBS (pH 7.2) and 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

N⁶-Cyclohexyladenosine is an adenosine receptor agonist.¹ It selectively binds to adenosine A₁ receptors in rat cortical membranes (IC₅₀ = 2.3 nM) over A₂ receptors in rat striatal membranes (IC₅₀ = 870 nM). N⁶-Cyclohexyladenosine decreases heart rate and increases coronary flow in a perfused working rat heart model *ex vivo* (EC₂₅s = 5 and 860 nM, respectively). *In vivo*, it decreases heart rate and blood pressure in normotensive rats (EC₂₅s = 2.4 and 4.2 μg/kg, respectively).¹ N⁶-Cyclohexyladenosine (100 μM) induces sleep in rats when administered *via* basal forebrain infusion.² N⁶-Cyclohexyladenosine also decreases locomotor activity in mice (ED₅₀ = 60 μg/kg, *i.p.*).³

References

1. Hutchison, A.J., Webb, R.L., Oei, H.H., *et al.* CGS 21680C, an A₂ selective adenosine receptor agonist with preferential hypotensive activity. *J. Pharmacol. Exp. Ther.* **251**(1), 47-55 (1989).
2. Blanco-Centurion, C., Xu, M., Murillo-Rodriguez, E., *et al.* Adenosine and sleep homeostasis in the basal forebrain. *J Neurosci.* **26**(31), 8092-8100 (2006).
3. Nikodijević, O., Daly, J.W., and Jacobson, K.A. Characterization of the locomotor depression produced by an A₂-selective adenosine agonist. *FEBS Lett.* **261**(1), 67-70 (1990).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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