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Produktinformation



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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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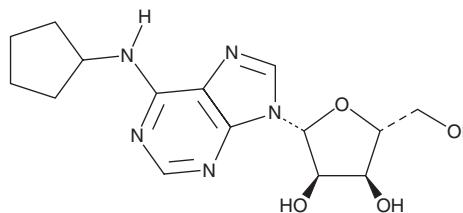
PRODUCT INFORMATION



N⁶-Cyclopentyladenosine

Item No. 21448

CAS Registry No.: 41552-82-3
Formal Name: N-cyclopentyl-adenosine
Synonyms: CPA, UK 80882
MF: C₁₅H₂₁N₅O₄
FW: 335.4
Purity: ≥99%
Supplied as: A 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-Cyclopentyladenosine is supplied as a solid. A stock solution may be made by dissolving the N⁶-cyclopentyladenosine in the solvent of choice. N⁶-Cyclopentyladenosine is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas. The solubility of N⁶-cyclopentyladenosine in DMSO is up to approximately 100 mM and up to approximately 25 mM in ethanol, with warming.

Description

N⁶-Cyclopentyladenosine is a selective agonist at adenosine 1 receptors (A₁Rs) (K_s = 2.3, 790, and 43 nM for A₁R, A₂R, and A₃R receptors, respectively, in transfected CHO cells).^{1,2} When microinjected into the rat brainstem, it increases blood pressure and heart rate.³ It is effective for pain in normal and nerve-injured rats and shows anticonvulsant activity in a rat model of generalized seizures.^{4,5}

References

1. Klotz, K.-N. Adenosine receptors and their ligands. *Naunyn-Schmiedeberg's Arch. Pharmacol.* **362(4)**, 382-391 (2000).
2. Klotz, K.-N., Hessling, J., Hegler, J., *et al.* Comparative pharmacology of human adenosine receptor subtypes - characterization of stably transfected receptors in CHO cells. *Naunyn-Schmiedeberg's Arch. Pharmacol.* **357(1)**, 1-9 (1998).
3. Barraco, R.A., el-Ridi, M.R., Ergene, E., *et al.* Adenosine receptor subtypes in the brainstem mediate distinct cardiovascular response patterns. *Brain Res. Bull.* **26(1)**, 59-84 (1991).
4. Gong, Q.-J., Li, Y.-Y., Xin, W.-J., *et al.* Differential effects of adenosine A₁ receptor on pain-related behavior in normal and nerve-injured rats. *Brain Res.* **1361**, 23-30 (2010).
5. Jaishree, J., Kumaresan, S., Sudha, S., *et al.* Individual and combined effects of N⁶-cyclopentyladenosine, flunarizine and diazepam on aminophylline-induced recurrent generalized seizures in mice. *Pol. J. Pharmacol.* **55(4)**, 559-564 (2003).

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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