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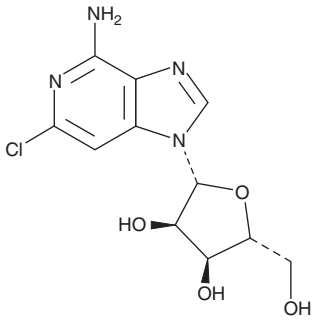
PRODUCT INFORMATION

2-chloro-3-Deazaadenosine

Item No. 9000787

CAS Registry No.: 40656-71-1
Formal Name: 6-chloro-1-β-D-ribofuranosyl-1H-imidazo[4,5-c]pyridin-4-amine
Synonyms: 6-Amino-2-chloropurine riboside, 2-CADO, NSC 158900
MF: $C_{11}H_{13}ClN_4O_4$
FW: 300.7
Purity: ≥98%
UV/Vis.: λ_{max}: 274 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

2-chloro-3-Deazaadenosine is supplied as a crystalline solid. A stock solution may be made by dissolving the 2-chloro-3-deazaadenosine in the solvent of choice, which should be purged with an inert gas. 2-chloro-3-Deazaadenosine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 2-chloro-3-deazaadenosine in these solvents is approximately 0.25, 2.5, and 2 mg/ml, respectively.

2-chloro-3-Deazaadenosine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 2-chloro-3-deazaadenosine should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 2-chloro-3-Deazaadenosine has a solubility of approximately 0.1 mg/ml in a 1:10 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Adenosine receptors are a family of G protein-coupled receptors that display distinct patterns of ligand binding and tissue distribution, regulating a variety of physiological functions. 2-chloro-3-Deazaadenosine is a stable analog of adenosine that acts as an agonist for adenosine receptors (K_i = 0.3, 0.08, 25.5, and 1.9 µM for A_1, A_{2A}, A_{2B}, and A_3 receptors, respectively).[1,2] It can block neurotransmitter release by activating A_1 receptors or inhibit neurotransmission by activating A_2A receptors.[3-5] 2-chloro-3-Deazaadenosine blocks seizures by stimulating A_1 receptors.[6,7]

References

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2. Linden, J., Thai, T., Figler, H., *et al. Mol. Pharm.* **56(4)**, 705-713 (1999).
3. Silinsky, E.M. *J. Physiol.* **346**, 243-256 (1984).
4. Manzini, S. and Ballati, L. *Br. J. Pharmacol.* **100(2)**, 251-256 (1990).
5. Pousinha, P.A., Correia, A.M., Sebastião, A.M., *et al. J. Pharmacol. Exp. Ther.* **332(1)**, 153-163 (2010).
6. Malhotra, J. and Gupta, Y.K. *Br. J. Pharmacol.* **120(2)**, 282-288 (1997).
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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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