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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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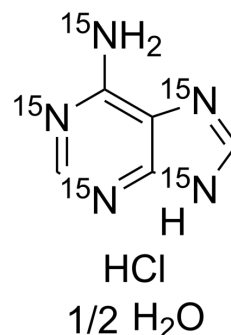
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Adenine-¹⁵N₅ hydrochloride hydrate

Cat. No.:	HY-B0152S7
Molecular Formula:	C ₅ H ₆ Cl ¹⁵ N ₅ ·1/2H ₂ O
Molecular Weight:	194.57
Target:	DNA/RNA Synthesis; Isotope-Labeled Compounds
Pathway:	Cell Cycle/DNA Damage; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Adenine-15N₅ hydrochloride hydrate (6-Aminopurine-15N₅ hydrochloride hydrate) is the deuterium labeled Adenine (HY-B0152). Adenine (6-Aminopurine), a purine, is one of the four nucleobases in the nucleic acid of DNA. Adenine acts as a chemical component of DNA and RNA. Adenine also plays an important role in biochemistry involved in cellular respiration, the form of both ATP and the cofactors (NAD and FAD), and protein synthesis^{[1][2][3]}.

REFERENCES

- [1]. ORO J, et al. Synthesis of purines under possible primitive earth conditions. I. Adenine from hydrogen cyanide. Arch Biochem Biophys. 1961 Aug;94:217-27.
- [2]. Griffiths AJF, et al. An Introduction to Genetic Analysis. 7th edition. New York: W. H. Freeman; 2000. Structure of DNA.
- [3]. Reader V. The assay of vitamin B(4). Biochem J. 1930;24(6):1827-31.
- [4]. Yung-Jen Tsai, et al. Pharmacokinetics of Adenosine and Cordycepin, a Bioactive Constituent of Cordyceps sinensis in Rat. J Agric Food Chem 2010 Apr 28;58(8):4638-43.
- [5]. Fatma F Mohamed, et al. Dentoalveolar Alterations in an Adenine-Induced Chronic Kidney Disease Mouse Model. J Bone Miner Res. 2023 Aug;38(8):1192-1207.
- [6]. Chien-Ning Hsu, et al. Sodium Thiosulfate Improves Hypertension in Rats with Adenine-Induced Chronic Kidney Disease. Antioxidants (Basel). 2022 Jan 11;11(1):147.

Caution: Product has not been fully validated for medical applications. For research use only.

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