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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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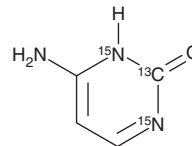
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PRODUCT INFORMATION



Cytosine-¹³C,¹⁵N₂
Item No. 41122

CAS Registry No.: 181517-10-2
Formal Name: 4-amino-2(1H)-pyrimidinone-2-¹³C-1,3-¹⁵N₂
Synonym: 4-Aminouracil-¹³C,¹⁵N₂
MF: C₃[¹³C]H₅N[¹⁵N]₂O
FW: 114.1
Purity: ≥98%
Supplied as: A 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

Cytosine-¹³C,¹⁵N₂ is supplied as a solid. A stock solution may be made by dissolving the cytosine-¹³C,¹⁵N₂ in water. Cytosine-¹³C,¹⁵N₂ is sparingly soluble (1-10 mg/ml) in water. We do not recommend storing the aqueous solution for more than one day.

Description

Cytosine-¹³C,¹⁵N₂ is intended for use as an internal standard for the quantification of cytosine (Item No. 36219) by GC- or LC-MS. Cytosine is a pyrimidine base.¹ It forms complementary base pairs with the purine guanine (Item No. 34248) in DNA and RNA and is a precursor of uracil (Item No. 26088). Methylation of cytosine is a key epigenetic mark that plays a role in gene regulation.²

References

1. Berg, J.M., Tymoczko, J.L., and Stryer, L. Nucleotide biosynthesis. *Biochemistry*. 5th edition, W.H. Freeman (2002).
2. Breiling, A. and Lyko, F. Epigenetic regulatory functions of DNA modifications: 5-Methylcytosine and beyond. *Epigenetics Chromatin* **8**, 24 (2015).

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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