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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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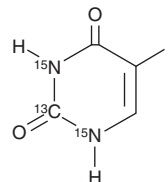
PRODUCT INFORMATION



5-Fluorouracil-¹³C,¹⁵N₂

Item No. 26683

CAS Registry No.: 1189423-58-2
Formal Name: 5-fluoro-2,4(1H,3H)-pyrimidinedione-2-¹³C-1,3-¹⁵N₂
Synonym: 5-FU-¹³C,¹⁵N₂
MF: C₃[¹³C]H₃F[¹⁵N₂]O₂
FW: 133.1
Purity: ≥95%
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

5-Fluorouracil-¹³C,¹⁵N₂ is supplied as a solid. A stock solution may be made by dissolving the 5-fluorouracil-¹³C,¹⁵N₂ in the solvent of choice, which should be purged with an inert gas. 5-Fluorouracil-¹³C,¹⁵N₂ is slightly soluble in methanol and DMSO.

Description

5-Fluorouracil-¹³C,¹⁵N₂ is intended for use as an internal standard for the quantification of 5-fluorouracil (Item No. 14416) by GC- or LC-MS. 5-Fluorouracil is a pyrimidine analog that irreversibly inhibits thymidylate synthase, blocking the synthesis of thymidine which is required for DNA synthesis. Intracellular metabolites of 5-fluorouracil exert cytotoxic effects by either inhibiting thymidylate synthetase, or through incorporation into RNA and DNA, ultimately initiating apoptosis.¹

Reference

1. Miwa, M., Ura, M., Nishida, M., *et al.* Design of a novel oral fluoropyrimidine carbamate, capecitabine, which generates 5-fluorouracil selectively in tumours by enzymes concentrated in human liver and cancer tissue. *Eur. J. Cancer* **34**(8), 1274-1281 (1998).

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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