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Produktinformation

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- 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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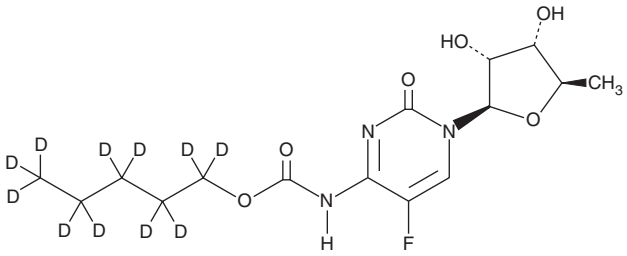
PRODUCT INFORMATION

Capecitabine-d_{11}

Item No. 10010681

CAS Registry No.: 1132662-08-8
Formal Name: 5'-deoxy-5-fluoro-N-[(pentyl-1,1,2,2,3,3,4,4,5,5,5-d_{11}-oxy)carbonyl]-cytidine
MF: $C_{15}H_{11}D_{11}FN_3O_6$
FW: 370.4
Chemical Purity: ≥95% (Capecitabine)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_{11}); ≤1% d_0
Supplied as: A crystalline 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

Capecitabine-d_{11} is intended for use as an internal standard for the quantification of capecitabine (Item No. 10487) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Capecitabine-d_{11} is supplied as a crystalline solid. A stock solution may be made by dissolving the capecitabine-d_{11} in the solvent of choice, which should be purged with an inert gas. Capecitabine-d_{11} is soluble in methanol (warm) and slightly soluble in DMSO.

Description

Capecitabine is a prodrug form of 5-fluorouracil (5-FU; Item No. 14416).[1] It is converted to 5-FU *via* several enzymatic steps beginning in the liver and ending with conversion in tumor tissue by thymidine phosphorylase, an enzyme that is more concentrated in tumor tissue compared with normal tissue. Capecitabine is cytotoxic only at high concentrations in Scaber, SIHA, and MKN45 cells (IC_{50}s = 97, 578, and 994 µM, respectively) and is inactive in a variety of cancer cell lines, including COLO 205, HCT116, and MCF-7 cells (IC_{50}s = >1,000 µM).

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).

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