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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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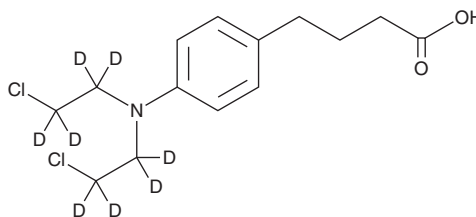
PRODUCT INFORMATION



Chlorambucil-d₈

Item No. 26774

Formal Name: 4-[bis(2-chloroethyl)amino-d₈]-benzenebutanoic acid
MF: C₁₄H₁₁D₈Cl₂NO₂
FW: 312.3
Chemical Purity: ≥98% (Chlorambucil)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₈); ≤1% d₀
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

Chlorambucil-d₈ is intended for use as an internal standard for the quantification of chlorambucil (Item No. 23744) 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).

Chlorambucil-d₈ is supplied as a solid. A stock solution may be made by dissolving the chlorambucil-d₈ in the solvent of choice, which should be purged with an inert gas. Chlorambucil-d₈ is slightly soluble in chloroform and methanol.

Description

Chlorambucil is a nitrogen mustard alkylating agent that forms intra- and interstrand crosslinks in DNA, the latter of which prevents DNA replication and transcription leading to cell death.¹ It preferentially decreases survival of rapidly proliferating spleen colony-forming cells over spleen colony-forming cells from normal bone marrow.² Formulations containing chlorambucil have been used alone and in combination with other chemotherapeutic agents in the treatment of chronic lymphocytic leukemia and lymphomas.

References

1. Mattes, W.B., Hartley, J.A., and Kohn, K.W. DNA sequence selectivity of guanine-N7 alkylation by nitrogen mustards. *Nucleic Acids Res.* **14**(7), 2971-2987 (1986).
2. van Putten, L.M. and Lelieveld, P. Factors determining cell killing by chemotherapeutic agents *in vivo*. II. Melphalan, chlorambucil and nitrogen mustard. *Eur. J. Cancer* **7**(1), 11-16 (1971).

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.

WARRANTY AND LIMITATION OF REMEDY

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