

Produktinformation



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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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PRODUCT INFORMATION



Carmustine-d_s Item No. 42213

Formal Name: N,N'-bis(2-chloroethyl-d₈)-N-nitroso-urea BCNU-d_g, bis-Chloroethylnitrosourea-d_g Synonyms:

MF: C₅HD₈Cl₂N₃O₂

FW:

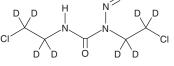
Chemical Purity: ≥98% (Carmustine)

Deuterium

≥99% deuterated forms (d₁-d₈); ≤1% d₀ Incorporation:

Supplied as: A solid -20°C Storage: Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

Carmustine-do is intended for use as an internal standard for the quantification of carmustine (Item No. 15775) 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).

Carmustine- d_8 is supplied as a solid. A stock solution may be made by dissolving the carmustine- d_8 in the solvent of choice, which should be purged with an inert gas. Carmustine-d₈ is soluble in ethanol and DMSO.

Description

Carmustine is a DNA alkylating agent.^{1,2} It inhibits cell growth and induces cell cycle arrest at the G₂/M phase in C6 rat glioma cells when used at a concentration of 10 μM.² In vivo, carmustine (0.3 and 6.7 mg/kg per day) reduces tumor growth in a C6 rat glioma model. Carmustine (0.5 mg/kg, i.p.) also reduces the number of amyloid-β plaques and brain levels of amyloid-β (1-40) (Aβ40), as well as increases brain levels of soluble amyloid precursor protein (sAPP) in the APP/PS1 transgenic mouse model of Alzheimer's disease.3 Formulations containing carmustine have been used in the treatment of gliomas and glioblastomas.

References

- 1. Wasserman, T.H., Slavik, M., and Carter, S.K. Clinical comparison of the nitrosoureas. Cancer 36(4), 1258-1268 (1975).
- 2. Soma, M.R., Baetta, R., De Renzis, M.R., et al. In vivo enhanced antitumor activity of carmustine [N,N'bis(2-chloroethyl)-N-nitrosourea] by simvastatin. Cancer Res. 55(3), 597-602 (1995).
- 3. Hayes, C.D., Dey, D., Palavicini, J.P., et al. Striking reduction of amyloid plaque burden in an Alzheimer's mouse model after chronic administration of carmustine. BMC Med. 11, 81 (2013).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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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