PRODUCT INFORMATION



DL-Aspartic Acid-d₂

Item No. 34836

CAS Registry No.: 14341-75-4

Formal Name: aspartic-2,3,3-d₃ acid Synonym: (±)-Aspartic Acid-d₃ MF: $C_4H_4D_3NO_4$

FW: 136.1

Chemical Purity: ≥95% (Aspartic Acid)

Deuterium

 \geq 99% deuterated forms (d₁-d₂); \leq 1% d₀ Incorporation:

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.



DL-Aspartic acid-d₃ is intended for use as an internal standard for the quantification of aspartic acid 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).

Description

DL-Aspartic acid is a racemic mixture of the proteinogenic amino acid L-aspartic acid and the non-proteinogenic amino acid D-aspartic acid (Item No. 33494). It has been used as a precursor in the synthesis of amino acid derivatives with thrombolytic and lead chelating activities. 1,2

References

- 1. Gui, L., Zhao, M., Wang, Y., et al. Synthesis, nanofeatures, in vitro thrombus lysis activity and in vivo thrombolytic activity of poly-α,β-aspartyl-L-alanine. Nanomedicine (Lond.) 5(5), 703-714 (2010).
- 2. Zhang, H., Wang, Y., Zhao, M., et al. Synthesis and in vivo lead detoxification evaluation of poly-α,β-dl-aspartyl-l-methionine. Chem. Res. Toxicol. 25(2), 471-477 (2012).

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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