

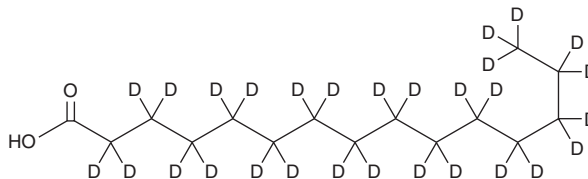
PRODUCT INFORMATION



Pentadecanoic Acid-d₂₉

Item No. 28081

CAS Registry No.: 130348-95-7
Formal Name: pentadecanoic-d₂₉ acid
Synonyms: C₁₅:0-d₂₉, Pentadecylic Acid-d₂₉
MF: C₁₅HD₂₉O₂
FW: 271.6
Chemical Purity: ≥95% (Pentadecanoic Acid)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₂₉); ≤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

Pentadecanoic acid-d₂₉ is intended for use as an internal standard for the quantification of pentadecanoic acid (Item No. 17399) 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).

Pentadecanoic acid-d₂₉ is supplied as a solid. A stock solution may be made by dissolving the pentadecanoic acid-d₂₉ in the solvent of choice. Pentadecanoic acid-d₂₉ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of pentadecanoic acid-d₂₉ in ethanol and DMF is approximately 25 mg/ml and approximately 10 mg/ml in DMSO.

Description

Pentadecanoic acid is a 15:0 saturated fatty acid found in esterified form in the lipids of many bacterial species and in the milk fat of ruminants.¹ It has been used as a biological marker for the intake of dairy fat in the assessment of metabolic risk factors.^{1,2}

References

1. Smedman, A.E.M., Gustafsson, I.B., Berglund, L.G.T., *et al.* Pentadecanoic acid in serum as a marker for intake of milk fat: Relations between intake of milk fat and metabolic risk factors. *Am. J. Clin. Nutr.* **69**(1), 22-29 (1999).
2. Wolk, A., Vessby, B., Ljung, H., *et al.* Evaluation of a biological marker of dairy fat intake. *Am. J. Clin. Nutr.* **68**(2), 291-295 (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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