

Product Data Sheet

Product Name: Stearic Acid-d35

Cat. No.: GC45569

Chemical Properties

Cas. No. 17660-51-4

[illegible]

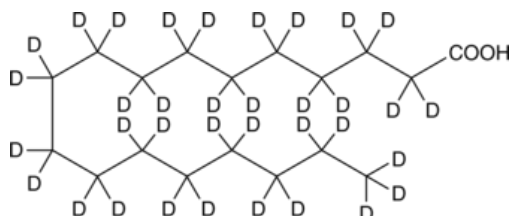
Formula	C18HD35O2	M.Wt	319.7
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Solubility	DMF: 30 mg/ml,DMSO: 10 mg/ml,Ethanol: 20 mg/ml	Storage	Store at -20°C
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General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure



Background

Stearic acid-d35 is intended for use as an internal standard for the quantification of stearic acid by GC- or LC-MS. Stearic acid is a long-chain saturated fatty acid. It is a major component of cocoa butter and has also been found in beef fat and vegetable oils.^{1,2,3} Unlike many long-chain saturated fatty acids, dietary stearic acid does not induce hypercholesterolemia or raise LDL-cholesterol.⁴

References

1. Chuparova, E., Chobanov, D., and Popov, A. Quantitative analysis of fatty acids by liquid-partition chromatography. *Izv. Inst. Org. Khim. Bulgar. Akad. Nauk* 2, 31-35 (1965).
2. Westerling, D.B., and Hedrick, H.B. Fatty acid composition of bovine lipids as influenced by diet, sex and anatomical location and relationship to sensory characteristics. *J. Anim. Sci.* 48(6), 1343-

Caution: Product has not been fully validated for medical applications. For research use only.

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Product Data Sheet

1348 (1979).

3. Demirbağ, A. Chemical and fuel properties of seventeen vegetable oils. *Energy Sources* 25(7), 721-728 (2003).

4. Grundy, S.M. Influence of stearic acid on cholesterol metabolism relative to other long-chain fatty acids. *Am. J. Clin. Nutr.* 60(Suppl 6), 986S-990S (1994).

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