

Product Data Sheet

Product Name: Myristic Acid-d₂

Cat. No.: GC47713

Chemical Properties

Cas. No. 30719-21-2

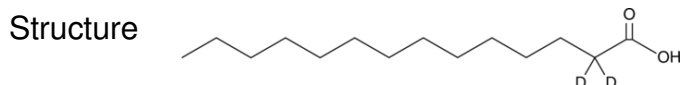
SMILES OC(C([2H])([2H])CCCCCCCCCCCC)=O

Formula C₁₄H₂₆D₂O₂ M.Wt 230.4

Solubility DMF: 15 mg/ml, DMSO: 10 mg/ml, Ethanol: 15 mg/ml
Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.



Background

Myristic acid-d₂ is intended for use as an internal standard for the quantification of myristic acid by GC- or LC-MS. Myristic acid is a 14-carbon saturated fatty acid. It is incorporated into myristoyl coenzyme A (myristoyl-CoA) and transferred by N-myristoyltransferase to the N-terminal glycine of certain proteins either during translation to modify protein activity or post-translationally in apoptotic cells.^{1,2}

1. Bhatnagar, R.S., Fütterer, K., Waksman, G., et al. The structure of myristoyl-CoA: Protein N-myristoyltransferase. *Biochim. Biophys. Acta* 1441(2-3):162-172 (1999)
2. Martin, D.D.O., Beauchamp, E., and Berthiaume, L.G. Post-translational myristoylation: Fat matters in cellular life and death. *Biochimie* 93(1):18-31 (2011)

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

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