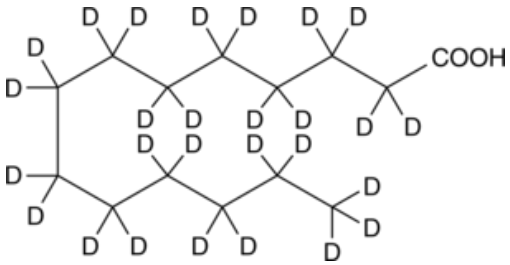
Product Data Sheet

Product Name: Myristic Acid-d27
Cat. No.: GC45516

Chemical Properties

Cas. No.	60658-41-5		
SMILES	[2H]C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C(O)=O		
Formula	C14HD27O2	M.Wt	255.5
Solubility	DMF: 15 mg/ml,DMSO: 12 mg/ml,Ethanol: 15 mg/ml	Storage	Store at -20°C
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.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Myristic acid-d27 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

References

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).

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