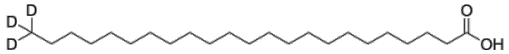
Product Data Sheet

Product Name: Tricosanoic acid-d 3
Cat. No.: GC80405

Chemical Properties

Cas. No.	2732915-45-4		
Formula	$C_{23}H_{43}D_3O_2$	M.Wt	357.63
Solubility		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

Tricosanoic acid -d 3 is the deuterium labeled Tricosanoic acid. Tricosanoic acid is an endogenous agonist of long-chain saturated fatty acids and free fatty acid receptor FFAR1, which can activate hair growth. Tricosanoic acid (C23:0) has the activity of improving cognitive function by regulating neuronal membrane fluidity, inhibiting neuroinflammatory response, participating in myelination and neuronal energy metabolism. Tricosanoic acid expression levels are low in the prefrontal cortex of Alzheimer's disease (AD) models; while better cognitive performance corresponds to higher serum concentration levels. Tricosanoic acid can be used as a biomarker for diseases related to cognitive decline [1].

Caution: Product has not been fully validated for medical applications. For research use only.
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In Vitro, Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

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