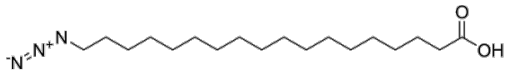
Product Data Sheet

Product Name: 18-Azido-stearic acid
Cat. No.: GC71169

Chemical Properties

Cas. No.	1529763-58-3		
Formula	$C_{18}H_{35}N_3O_2$	M.Wt	325.49
Solubility	DMSO : 100 mg/mL (307.23 mM; Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)	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

18-Azido-stearic acid is a click chemistry reagent containing an azide group, which can be used as a hydrophobic bioconjugation linker (using N-Myristoyltransferase) that can be further modified at the azido-position using Click-chemistry [2]. 18-Azido-stearic acid can be used to prepare functionalized glycerol/diacid dendrimers for modifying and linking signaling peptides or controlling charge patterns,

thereby enabling selective targeting of encapsulated drugs or delivery to specific biological sites [2].

References:

[1] Ejendal K F K, Fraseur J G, Kinzer-Ursem T L. Protein labeling and bioconjugation using N-Myristoyltransferase[M]//Bioconjugation: Methods and Protocols. New York, NY: Springer New York, 2019: 149-165.
[2] Zerkowski J A, Nunez A, Solaiman D K Y. Selectively functionalized glycerol/diacid dendrimers via click chemistry of azido fatty acids[J]. Journal of the American Oil Chemists' Society, 2011, 88(3): 403-413.