

Product Data Sheet

Product Name: 18-Azido-stearic acid

Cat. No.: GC71169

Chemical Properties

Cas. No. 1529763-58-3

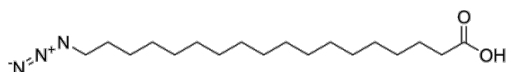
Formula $C_{18}H_{35}N_3O_2$ M.Wt 325.49

Solubility DMSO : 100 mg/mL (307.23 mM; Storage Store at -20°C
Need ultrasonic; Hygroscopic DMSO
has a significant impact on the
solubility of product, please use
newly opened DMSO)

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,

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

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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.

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