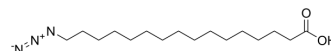


16-Azidohexadecanoic acid

Cat. No.:	HY-147309
CAS No.:	112668-54-9
Molecular Formula:	C ₁₆ H ₃₁ N ₃ O ₂
Molecular Weight:	297.44
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (336.20 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.3620 mL	16.8101 mL	33.6202 mL
	5 mM	0.6724 mL	3.3620 mL	6.7240 mL
	10 mM	0.3362 mL	1.6810 mL	3.3620 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

16-Azidohexadecanoic acid, a synthetic fatty acid, can be used as a modification marker for nucleotides and a molecular probe for fatty acid metabolism^{[1][2]}. 16-Azidohexadecanoic acid is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

REFERENCES

[1]. J Balintová et al. Antibody-nucleotide conjugate as a substrate for DNA polymerases. Chem Sci. 2018 Jul 24;9(35):7122-7125.

[2]. Alexander J Pérez, et al. ω-Azido fatty acids as probes to detect fatty acid biosynthesis, degradation, and modification. J Lipid Res. 2014 Sep;55(9):1897-901.

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

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