

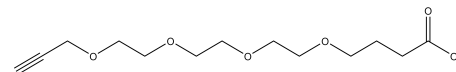
Product Information

Azide PEG reagent, 18-(Azide-PEG3-ethylcarbamoyl)heptadecanoic-*t*-butyl ester, Purity 95%

Cat. No.: X24-09-YYX462

Size: 100 mg; 250 mg; 500 mg; 1 g

Synonym: 18-Azido-PEG3-ethylcarbamoyl heptadecanoic acid *t*-butyl ester; *t*-butyl ester of 18-(Azide-PEG3-ethylcarbamoyl)heptadecanoic acid; Azide-PEG3-ethylcarbamoyl-18-heptadecanoic *t*-butyl ester



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	18-(Azide-PEG3-ethylcarbamoyl)heptadecanoic- <i>t</i> -butyl ester is a PEG linker that features an azide group along with an alkane tail terminating in a <i>t</i> -butyl ester. The azide moiety can react with alkyne compounds, BCN, and DBCO through click chemistry methods to form stable triazole linkages. Additionally, the <i>t</i> -butyl protected carboxylic acid can be deprotected under acidic conditions. This polymer has the ability to spontaneously form micelles in aqueous environments and may also be utilized for synthesizing more complex lipids suitable for drug delivery nanoparticles.
Molecular Weight	570.8
Molecular Formula	C ₃₀ H ₅₆ N ₄ O ₆
Functional Group 1	Azide
Functional Group 2	<i>t</i> -Butyl ester
Functional Group 3	Ether
Reactive Group 1	Alkynyl
Form	Solid
Purity	95%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	This compound is valuable in lipid modification and the development of lipid-based drug delivery systems. It can also be used in the study of lipid membranes and their interactions with other molecules.
Storage	Store at -20°C.