

Product Information

Alkyne/*t*-Butyl ester PEG reagent, Alkyne-ethyl-PEG1-*t*-Butyl ester, Purity 98%

Cat. No.: X24-10-WXX142

Size: 250 mg; 500 mg; 1 g

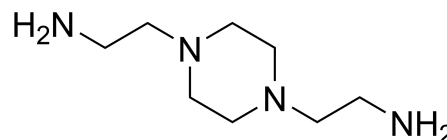
CAS Number: 2100306-55-4

PubChem CID: 126480405

Synonym: Alkyne-ethyl-PEG1-*t*-Butyl ester; 2100306-55-4; Alkyne-ethyl-PEG1-Boc;

ALKYNE-ETHYL-PEG1-T-BUTYLESTER; DTXSID301186925

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



Product Information

Description	Alkyne-ethyl-PEG1- <i>t</i> -Butyl ester has a <i>t</i> -butyl-protected carboxyl group and an alkyne group, designed for copper-catalyzed click chemistry reactions. The carboxyl group group is deprotected under mild acidic conditions.
Molecular Weight	198.3
Molecular Formula	C ₁₁ H ₁₈ O ₃
Functional Group 1	Alkyne
Functional Group 2	<i>t</i> -Butyl ester
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	<i>tert</i> -butyl 3-but-3-ynoxypropanoate
InChI	InChI=1S/C11H18O3/c1-5-6-8-13-9-7-10(12)14-11(2,3)4/h1H,6-9H2,2-4H3
InChI Key	NXVOMDPNTSWTMT-UHFFFAOYSA-N
Canonical SMILES	CC(C)(C)OC(=O)CCOCCC#C
Form	Liquid
Purity	98%
Identity	Confirmed by NMR.
Applications	Alkyne-ethyl-PEG1- <i>t</i> -Butyl ester is used in molecular biology and bioconjugation research, facilitating efficient copper-catalyzed click chemistry reactions with azide compounds or biomolecules to form a stable triazole linkage, making it ideal for studying biomolecular interactions and developing targeted drug delivery systems.
Storage	Store at -20°C.

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