

Product Information

Amine/NHS PEG reagent, 18-(NHS ester-methylamine-PEG3-ethylcarbamoyl)heptadecanoic-*t*-butyl ester, Purity 95%

Cat. No.: X24-09-YYX195

Size: 50 mg; 100 mg; 250 mg; 500 mg

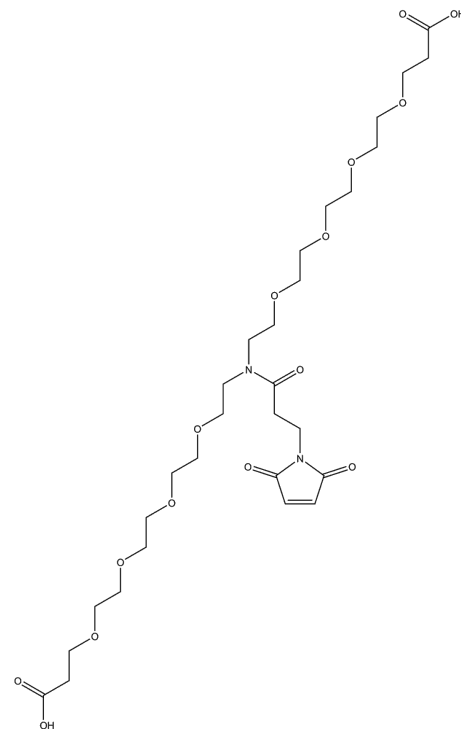
Synonym: 18-(*N*-hydroxysuccinimide ester-methylamine-

PEG3-ethylcarbamate)heptadecanoic acid *t*-butyl ester; 18-(NHS-methylamine-

PEG3-ethylcarbamate)-heptadecanoic *t*-butyl ester; 18-(NHS ester-methylamine-

PEG3-ethylcarbamate)-heptadecanoic acid *t*-butyl ester

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



Product Information

Description	18-(NHS ester-methylamine-PEG3-ethylcarbamoyl)heptadecanoic- <i>t</i> -butyl ester functions as a PEG linker featuring an NHS ester group alongside an alkane tail terminating with <i>t</i> -butyl esters. This NHS ester can label primary amines <i>t</i> -present in proteins or other related substances containing amino groups, while the <i>t</i> -butyl protected carboxylic acid can be deprotected under acidic conditions.
Molecular Weight	699.9
Molecular Formula	C ₃₆ H ₆₅ N ₃ O ₁₀
Functional Group 1	Amine
Functional Group 2	NHS
Functional Group 3	<i>t</i> -Butyl ester
Reactive Group 1	Acid
IUPAC Name	<i>tert</i> -butyl 18-[2-[2-[2-[2-[[2-(2,5-Dioxopyrrolidin-1-yl)oxy-2-oxoethyl]amino]ethoxy]ethoxy]ethoxy]ethylamino]-18-oxooctadecanoate
InChI	InChI=1S/C36H65N3O10/c1-36(2,3)48-34(43)19-17-15-13-11-9-7-5-4-6-8-10-12-14-16-18-31(40)38-23-25-46-27-29-47-28-26-45-24-22-37-30-35(44)49-39-32(41)20-21-33(39)42/h37H,4-30H2,1-3H3,(H,38,40)

InChI Key	ZIRUPFWXENHHMT-UHFFFAOYSA-N
Isomeric SMILES	<chem>CC(C)(C)OC(=O)CCCCCCCCCCCCCCCCC(=O)NCCOCCOCCOCCNCC(=O)ON1C(=O)CCC1=O</chem>
Form	Solid or viscous liquid
Purity	95%
Identity	Confirmed by NMR.
Applications	This compound could find application in the development of lipid-based drug delivery systems or in the modification of lipid molecules for specific purposes.
Storage	Store at -20°C.