

Amine/Azide PEG reagent, *N*-(*t*-Boc-*N*-amido-PEG10)-*N*-bis(PEG10-azide), Purity 95%

[illegible]

Synonym: *tert*-butyl

-[2-[2-[2-[2-[2-[2-[2-[2-[2-[bis[2-[2-[2-[2-[2-[2-[2-(2-azidoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]amino]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]carbamate

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

Product Information

Description	<i>N</i> -(<i>t</i> -Boc- <i>N</i> -amido-PEG10)- <i>N</i> -bis(PEG10-azide) is a widely used PEG reagent featuring a terminal Boc-protected amino group alongside two azides. The hydrophilic PEG spacer improves solubility in water-based media. Both azides are reactive towards alkynes such as BCN and DBCO through click chemistry processes resulting in stable triazole formations. The Boc protecting group can be removed under mild acidic conditions to release the free amine.
Molecular Weight	1620
Molecular Formula	C ₇₁ H ₁₄₂ N ₈ O ₃₂
Functional Group 1	Boc
Functional Group 2	Azide
Functional Group 3	Amine
Reactive Group 1	Alkyne
Reactive Group 2	Acid
IUPAC Name	<i>tert</i> -butyl <i>N</i> -[2-[2-[2-[2-[2-[2-[2-[2-[2-[bis[2-[2-[2-[2-[2-[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]amino]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]carbamate
InChI	InChI=1S/C71H142N8O32/c1-71(2,3)111-70(80)74-4-10-81-16-22-87-28-34-93-40-46-99-52-58-105-64-67-108-61-55-102-49-43-96-37-31-90-25-19-84-13-7-79(8-14-85-20-26-91-32-38-97-44-50-103-56-62-109-68-65-106-59-53-100-47-41-94-35-29-88-23-17-82-11-5-75-77-72)9-15-86-21-27-92-33-39-98-45-51-104-57-63-110-69-66-107-60-54-101-48-42-95-36-30-89-24-18-83-12-6-76-78-73/h4-69

	H2,1-3H3,(H,74,80)
InChI Key	REQVISHIQSNENI-UHFFFAOYSA-N
Isomeric SMILES	CC(C)(C)OC(=O)NCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCN(CCOC
Form	Solid
Purity	95%
Solubility	Water, DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	In biomaterials research, it can be used to modify the surface of scaffolds or implants to enhance biocompatibility and cell adhesion.
Storage	Store at -20°C.