

Product Information

DBCO/TFA PEG reagent, DBCO-PEG12-amine, TFA salt, Purity 95%

Cat. No.: X24-03-YW0381

Size: 25 mg; 50 mg; 100 mg

PubChem CID: 156598867

Synonym: DBCO-PEG12-amine; DBCO-PEG12-amine TFA salt; BP-25733;

BP-29921



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

Product Information

Description	DBCO-PEG12-amine TFA salt is a reagent grade PEG linker featuring DBCO and amine moieties, designed for copper-free Click Chemistry reactions. The hydrophilic PEG spacer enhances water solubility.
Molecular Weight	876.1
Molecular Formula	C ₄₅ H ₆₉ N ₃ O ₁₄
Functional Group 1	DBCO
Functional Group 2	TFA
Functional Group 3	None
Reactive Group 1	Azide
IUPAC Name	<i>N</i> -[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Aminoethoxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethyl]-4-(2-azatricyclo[10.4.0.0 ^{4,9}]hexadeca-1(16),4,6,8,12,14-hexaen-10-yn-2-yl)-4-oxobutanamide
InChI	InChI=1S/C45H69N3O14/c46-13-15-51-17-19-53-21-23-55-25-27-57-29-31-59-33-35-61-37-38-62-36-34-60-32-30-58-28-26-56-24-22-54-20-18-52-16-14-47-44(49)11-12-45(50)48-39-42-7-2-1-5-40(42)9-10-41-6-3-4-8-43(41)48/h1-8H,11-39,46H2,(H,47,49)
InChI Key	SLYZCZRDLYGVGG-UHFFFAOYSA-N
Canonical SMILES	C1C2=CC=CC=C2C#CC3=CC=CC=C3N1C(=O)CCC(=O)NCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCN
Form	Solid/liquid
Purity	95%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.

Applications

DBCO-PEG12-amine TFA salt is used in bioconjugation and molecular biology research, facilitating efficient copper-free Click Chemistry reactions. Its amine group reacts with carboxylic acids, activated NHS esters, and carbonyl compounds, making it ideal for modifying biomolecules and studying protein interactions.

Storage

Store at -20°C.
