

## Product Information

### Amine/Azide PEG reagent, *N*-(Azido-PEG4)-*N*-bis(PEG4-amine), Purity 98%

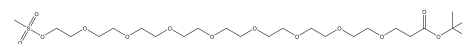
**Cat. No.:** X24-09-YYX353

**Size:** 50 mg; 100 mg; 250 mg

**Synonym:** Azido-PEG4-bis(PEG4-amine); *N*-(Azido-Polyethylene Glycol

4)-*N*-bis(PEG4-amino); Azido-PEG4-*N*-bis(Polyethylene Glycol 4-amine); *N*-(Azido-

PEG4)-*N*-bis(amine-PEG4)



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

#### Product Information

|                           |  |
|---------------------------|--|
| <b>Description</b>        | <i>N</i> -(Azido-PEG4)- <i>N</i> -bis(PEG4-amine) serves as a three-arm PEGylation reagent featuring one amino group and two azide groups. The amino group is reactive towards carboxylic acids and activated NHS esters. Additionally, the azide moiety can react with alkyne compounds like BCN or DBCO via click chemistry to yield stable triazole linkages. |
| <b>Molecular Weight</b>   | 700.9  |
| <b>Molecular Formula</b>  | C <sub>30</sub> H <sub>64</sub> N <sub>6</sub> O <sub>12</sub>   |
| <b>Functional Group 1</b> | Amine  |
| <b>Functional Group 2</b> | Azide  |
| <b>Functional Group 3</b> | None   |
| <b>Reactive Group 1</b>   | Acid   |
| <b>Reactive Group 2</b>   | Alkyne   |
| <b>IUPAC Name</b>         | 2-[2-[2-[2-[2-[2-[2-[2-(2-Aminoethoxy)ethoxy]ethoxy]ethoxy]ethyl]-2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethoxy]ethyl]amino]ethoxy]ethoxy]ethoxy]ethoxy]ethanamine   |
| <b>InChI</b>              | InChI=1S/C30H64N6O12/c31-1-7-37-13-19-43-25-28-46-22-16-40-10-4-36(5-11-41-17-23-47-29-26-44-20-14-38-8-2-32)6-12-42-18-24-48-30-27-45-21-15-39-9-3-34-35-33/h1-32H2   |
| <b>InChI Key</b>          | PLCRJHZNPFNSMO-UHFFFAOYSA-N  |
| <b>Isomeric SMILES</b>    | C(COCCOCCOCCOCCN(CCOCCOCCOCCOCCN)CCOCCOCCOCCOCCN=[N+]=[N-])N   |
| <b>Form</b>               | Solid  |
| <b>Purity</b>             | 98%  |
| <b>Identity</b>           | Confirmed by NMR.  |
| <b>Applications</b>       | In the modification of biomolecules, it can be used to attach multiple PEG chains for enhanced stability and biocompatibility.   |

**Storage**

Store at -20°C.

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