Product Information

Hydroxyl PEG reagent, PEG16, Purity 97%

Cat. No.: X24-03-YW0719

Size: 500 mg; 1 g; 5 g; 25 g **CAS Number:** 28821-35-4 **PubChem CID:** 120062

Synonym: 28821-35-4; HO-PEG15-OH;

3,6,9,12,15,18,21,24,27,30,33,36,39,42-Tetradecaoxatetratetracontane-1,44-diol;

PEG16

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

| Product Information | |
|---------------------|---|
| Description | PEG16 is a linear polymer consisting of 16 ethylene glycol units with terminal hydroxyl groups. These hydroxyl groups serve as reactive sites for further chemical modifications. The PEG16 structure enhances hydrophilicity and solubility in aqueous environments, making it suitable for various research applications. |
| Molecular Weight | 678.8 |
| Molecular Formula | $C_{30}H_{62}O_{16}$ |
| Functional Group 1 | Hydroxyl |
| Reactive Group 1 | Nucleophile |
| IUPAC Name | 2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-[2-(2-Hydroxyethoxy)ethoxy]ethoxy |
| InChi | InChl=1S/C30H62O16/c31-1-3-33-5-7-35-9-11-37-13-15-39-17-19-41-21-23-43-25-27-45-29-30-46- 28-26-44-24-22-42-20-18-40-16-14-38-12-10-36-8-6-34-4-2-32/h31-32H,1-30H2 |
| InChI Key | OWTQQPNDSWCHOV-UHFFFAOYSA-N |
| Canonical SMILES | c(coccoccoccoccoccoccoccoccoccoccocco)o |
| Form | Solid |
| Purity | 97% |
| Identity | Confirmed by NMR. |
| Applications | PEG16 is commonly used in research for designing hydrophilic linkers, stabilizing biomolecules, and modifying surfaces. Its hydroxyl groups enable versatile functionalization, allowing the development of water-soluble materials and studying molecular interactions in biomedical and materials science research. |

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| Storage | Store at -20°C. |
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