

THP/Hydroxyl PEG reagent, THP-PEG12, Purity 98%

[illegible]

CAS Number: 92417-25-9

PubChem CID: 118796266

ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethanol;

AKOS040743992

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

Product Information

Description	THP-PEG12 is a PEG linker featuring a tetrahydropyranyl (THP) group and a hydrophilic PEG12 spacer. The THP group serves as an acid-labile protecting group for alcohols, enabling controlled deprotection under acidic conditions. The PEG12 chain provides enhanced solubility and hydrophilicity in aqueous media.
Molecular Weight	586.7
Molecular Formula	C ₂₇ H ₅₄ O ₁₃
Functional Group 1	THP
Functional Group 2	Hydroxyl
Reactive Group 1	Acid
Reactive Group 2	Nucleophile
IUPAC Name	2-[2-[2-[2-[2-[2-[2-[2-(Oxan-2-yloxy)ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethoxy]ethox y]ethoxy]ethoxy]ethanol
InChI	InChI=1S/C27H54O13/c28-4-6-29-7-8-30-9-10-31-11-12-32-13-14-33-15-16-34-17-18-35-19-20-36- 21-22-37-23-24-38-25-26-40-27-3-1-2-5-39-27/h27-28H,1-26H2
InChI Key	ABLJOOQPRMPXFC-UHFFFAOYSA-N
Canonical SMILES	C1CCOC(C1)OCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCO
Form	Liquid
Purity	98%
Identity	Confirmed by NMR.
Applications	THP-PEG12 is employed in research for synthesizing functionalized molecules and studying

controlled deprotection reactions. The THP group is useful for protecting alcohols during multi-step synthesis, while the PEG12 spacer supports solubility in aqueous systems, making it ideal for linker design and material development in research settings.

Storage

Store at -20°C.
