

Product Information

Azide/DNP PEG reagent, DNP-PEG12-azide, Purity 95%

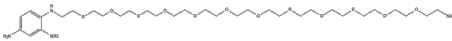
Cat. No.: X24-03-YW0303

Size: 100 mg; 250 mg; 500 mg; 1 g

PubChem CID: 488411019

Synonym: BPG-0204

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



Product Information

Description	DNP-PEG12-azide is a heterobifunctional PEG linker comprising a dinitrophenyl group and an azide moiety. Dinitrophenyl serves as a potent FRET quencher, particularly effective when paired with tryptophan or tyrosine residues. Meanwhile, the azide functionality enables click chemistry reactions with terminal alkynes or strained cyclooctynes, facilitating versatile bioconjugation strategies.
Molecular Weight	780.8
Molecular Formula	C ₃₂ H ₅₆ N ₆ O ₁₆
Functional Group 1	Azide
Functional Group 2	DNP
Functional Group 3	None
Form	Reported
Purity	95%
Solubility	DMSO, DCM, DMF
Identity	Confirmed by NMR.
Applications	DNP-PEG12-azide can be used in various biophysical and biochemical applications. Its dinitrophenyl group can be employed in fluorescence-based studies, allowing for the investigation of protein-protein interactions or conformational changes. Furthermore, the azide functionality enables efficient conjugation to biomolecules or surfaces <i>via</i> click chemistry, facilitating the development of labeled probes for imaging, drug delivery systems, or biomaterials engineering. The long PEG12 spacer enhances the compound's solubility and flexibility, ensuring optimal performance in diverse experimental settings.
Storage	Store at -20°C