

Product Information

SPDP/Carboxylic acid PEG reagent, SPDP-PEG12-acid, Purity ≥95%

Cat. No.: X26-09-ZQ410

Size: 100 mg; 250 mg; 500 mg

Synonym: SPDP-PEG12-carboxylic acid; SPDP-polyethylene glycol12-acid; 3-(2-Pyridyldithio)propionate-PEG12-acid; SPDP-dodecaethylene glycol-acid; SPDP-PEG12-carboxyl

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

Product Information

Description	This product is a long monodisperse polyethylene glycol (PEG) linker terminated with a pyridyldithiol (SPDP) group and a carboxylic acid functionality. The extended PEG chain provides superior water solubility and suppresses steric hindrance during bioconjugation steps. The disulfide motif enables reversible thiol exchange under reducing conditions.
Molecular Weight	815
Molecular Formula	C ₃₅ H ₆₂ N ₂ O ₁₅ S ₂
Functional Group 1	SPDP
Functional Group 2	Carboxylic acid
Reactive Group 1	Thiol
Reactive Group 2	Amine
Reactive Group 3	Alcohol
Purity	≥95%
Applications	This product can be used to design reduction-sensitive polymeric materials, immobilize proteins onto carboxylic acid functionalized surfaces, and construct complex bio-orthogonal crosslinked networks for analytical chemical assays.
Storage	Store at -20°C.