

SMPEG2Catalog number: 4510
Unit size: 25 mg**Product Details**

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Solid
Soluble In	DMSO

Applications

SM(PEG)2 is an amine-to-sulfhydryl crosslinkers with 17.6 angstroms length. It has an amino group-reactive NHS ester and sulfhydryl group-reactive maleimide. The N-hydroxysuccinimide ester (NHS) group reacts specifically and efficiently with lysine and N-terminal amino groups at pH 7-9 to form stable amide bonds. The maleimide group reacts with reduced sulfhydryls at pH 6.5-7.5 to form stable thioether bonds. SM(PEG)2 is used for irreversibly crosslinking proteins or peptides by flexible PEG spacer arms. The PEG arms help maintain conjugate solubility, reducing tendency toward aggregation and immunogenicity. It is ideal for performing controlled, two-step protein conjugations as SMCC.