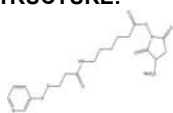


Sulfo-LC-SPDP

ALTERNATE NAME:	Sulfosuccinimidyl 6-(3'-[2-pyridyldithio]-propionamido)hexanoate
CATALOG#:	2325-50, 250
AMOUNT#:	50 mg, 250 mg

STRUCTURE:



MOLECULAR FORMULA#:	C ₁₈ H ₂₂ O ₈ N ₃ S ₃ Na
MOLECULAR WEIGHT#:	527.57
CAS#:	N/A
APPEARANCE:	White to off-white solid
SOLUBILITY:	H ₂ O (~ 6 mg/ml)
PURITY:	≥90% by NMR
STORAGE:	-20 ° C. Protect from moisture

DESCRIPTION:

A water-soluble, amine and thiol (sulfhydryl) reactive heterobifunctional crosslinking reagent.

KEY FEATURES:

- Sulfo-LC-SPDP releases a byproduct, pyridine-2-thione after reacting with free sulfhydryl groups. By measuring the release of this byproduct at 343 nm, the reaction can be easily followed
- Amine-reactive; the "long chain" Sulfo-LC-SPDP crosslinking reagent has a 15.7 Å spacer arm
- More water-soluble than the corresponding LC-SPDP
- Membrane-impermeable which enables crosslinking on cell surface
- The cleavable spacer arm enables separation of cross-linked products

APPLICATIONS:

- Reversible crosslinking of proteins
- N-hydroxysulfosuccinimide (Sulfo-NHS) ester that reacts with primary amines, as found in lysine side chains
- Sulfo-LC-SPDP crosslinking molecule pyridyldisulfide reacts with sulfhydryls to yield a reversible disulfide bond.

RELATED PRODUCTS:

Sulfo-SMCC (Cat. No. 2320-50, 100, 1000, 1 EA)
 Sulfo-NHS (Cat. No. 2321-500, 5G, 1 EA)
 Sulfo-NHS-Biotin (Cat. No. 2322-50, 250, 1 EA)
 Sulfo-SANPAH (Cat. No. 2324-50, 250)
 Sulfo-NHS-LC-Biotin (Cat. No. 2326-50, 250, 1EA)
 BS3 Crosslinker (Cat. No. 2327-50, 250, 1000, 1EA)
 SPDP Crosslinker (Cat. No. 2328-50, 250)
 Biotin-HPDP (Cat. No. 2329-50, 250)
 Traut's Reagent (Cat. No. 2330-50, 250, 1000)
 N-Hydroxy succinimide (Cat. No. 2331-1G, 5G, 25G)
 DTSSP Crosslinker (Cat. No. 2337-50, 250)

FOR RESEARCH USE ONLY! Not to be used on humans.