

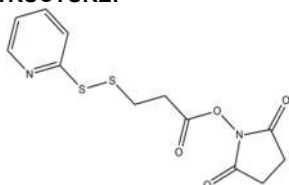
SPDP Crosslinker

ALTERNATE NAME: N-succinimidyl-3-(2-pyridyldithio)propionate; 3-(2-Pyridyldithio)propionic acid N-hydroxysuccinimide ester; 3-(2-Pyridyldithio)propionic acid NHS ester

CATALOG#: 2328-50, 250

AMOUNT#: 50 mg, 250 mg

STRUCTURE:



MOLECULAR FORMULA#: C₁₂H₁₂N₂O₁₀

MOLECULAR WEIGHT#: 312.36

CAS#: 68181-17-9

APPEARANCE: White to off-white solid

SOLUBILITY: DMSO or DMF

PURITY: ≥90% by NMR

STORAGE: -20 °C. Protect from moisture

DESCRIPTION:

SPDP Crosslinker is a cleavable heterobifunctional crosslinker.

KEY FEATURES:

- SPDP contains a dithiopyridyl group which is reactive towards cysteines (-SH groups) and an NHS group, which is useful when targeting primary amines (-NH₂ groups)
- 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
- Contains a disulfide linkage in its spacer arm with a length of 6.8 Å
- The spacer is cleavable with reducing agent, such as DTT, TCEP, etc.

APPLICATIONS:

- Reversible crosslinking of proteins
- N-hydroxysulfosuccinimide (Sulfo-NHS) ester that reacts with primary amines, as found in lysine side chains
- Useful for adding sulfhydryl groups to proteins by attachment to lysine residues
- Useful for preparation of enzyme immunoconjugates and hapten carrier molecule conjugates

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-LC-SPDP (Cat. No. 2325-50, 250)

Sulfo-NHS-LC-Biotin (Cat. No. 2326-50, 250, 1EA)

BS3 Crosslinker (Cat. No. 2327-50, 250, 1000, 1 EA)

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.