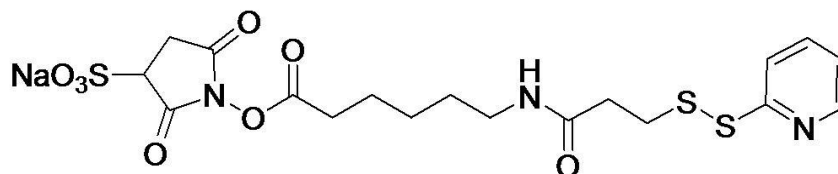


Sulfo-LC-SPDP Crosslinker Protocol and Product Information Sheet

Product Category:	Heterobifunctional Crosslinkers
Catalog Number(s):	c1118-100mg , c1118-1gm , c1118-custom
Product Name:	Sulfo-LC-SPDP Crosslinker
Alternative Name(s):	Sulfosuccinimidyl-6-(3'-[2-pyridyldithio]-propionamido) hexanoate
CAS Number:	N/A
Chemical Formula:	C ₁₈ H ₂₂ N ₃ NaO ₈ S ₃
Molecular Weight:	527.57
Spacer Arm Length:	15.7 Å
Storage:	Upon receipt store at -20°C (shipped at ambient temperature). Protect from moisture (i.e. humidity); blanket under desiccated, inert gas.



General Sulfo-LC-SPDP Protein Crosslinking Protocol

1. Allow vial of Sulfo-LC-SPDP Crosslinker to fully equilibrate to ambient temperature before opening to prevent condensation inside the vial (Sulfo-LC-SPDP is moisture-sensitive).
2. Dissolve 6.6 mg of Sulfo-LC-SPDP in 500 µL water to give a 25 mM crosslinker solution.
3. Dissolve protein #1 (without active thiol residues) at a concentration of 1-5 mg/mL in 100 mM sodium phosphate buffer, pH 7.2 to pH 8.0, 1 mM EDTA.
4. Add 20 µL of 25 mM Sulfo-LC-SPDP crosslinker solution to 1 mL of the above protein solution.
5. Allow reaction to proceed for 30-60 minutes at room temperature.
6. Remove unreacted Sulfo-LC-SPDP crosslinker from protein containing solution through gel-filtration, such as [Desalting Resin g4109-1gm](#) (i.e. Sephadex® G-25).
7. Dissolve protein #2 (with active thiol residues) in 100 mM sodium phosphate pH 7.2 to 8.0, 1 mM EDTA buffer.
8. Add 0.2 to 1.0 molar equivalents of protein #2 solution to desalted activated protein #1.
9. Allow this reaction to proceed for 8 to 16 hours at room temperature.
10. To cleave the newly formed conjugate, incubate crosslinked product with 50 mM TCEP-HCl ([cr8104-1gm](#)) or DTT ([cr8101-5x10mg](#)) for 90-120 minutes at room temperature or 1 hour at 45°C.

References:

Hermanson, G.T. 1996. Bioconjugates Techniques. Academic Press, San Diego, CA USA.

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