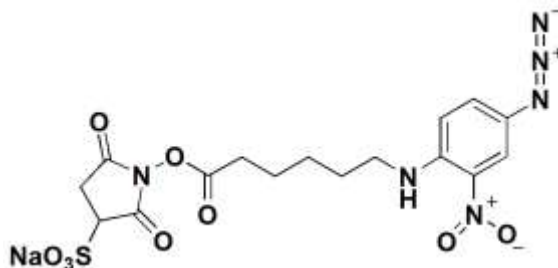


Sulfo-SANPAH Crosslinker Protocol and Product Information Sheet

Product Category:	Heterobifunctional Crosslinkers
Catalog Number(s):	c1111-100mg , c1111-1gm , c1111-custom
Product Name:	Sulfo-SANPAH Crosslinker
Alternative Name(s):	N-Sulfosuccinimidyl-6-(4'-azido-2'-nitrophenylamino) hexanoate
CAS Number:	102568-43-4
Chemical Formula:	C ₁₆ H ₁₇ N ₆ NaO ₉ S
Molecular Weight:	492.40
Spacer Arm Length:	18.2 Å
Storage:	Upon receipt store at -20°C (shipped at ambient temperature). Protect from light and moisture (i.e. humidity); blanket under desiccated, inert gas.



General Sulfo-SANPAH Crosslinking Protocol

1. Allow vial of Sulfo-SANPAH Crosslinker to fully equilibrate to ambient temperature before opening to prevent condensation inside the vial (Sulfo-SANPAH is moisture-sensitive and will hydrolyze).
2. Do not use amine or sulfhydryl containing buffers for the conjugation reaction. A suitable buffer is 25 mM Sodium Phosphate, 15 mM NaCl, pH 7.4.
3. Immediately before use, prepare a 10 mM solution of Sulfo-SANPAH in water (Note: The Sulfo-NHS ester of Sulfo-SANPAH is susceptible to hydrolysis. If aliquoted into an aqueous solution and stored in it, then the Sulfo-SANPAH will degrade).
4. Using a 20-fold excess approach (20:1 Crosslinker:Protein), add Sulfo-SANPAH crosslinker solution to the protein sample so that the final crosslinker concentration is between 0.5 to 5 mM.
5. Allow the sample to react at room temperature for 45 minutes to 1 hour. Allow slightly longer if reaction must be done on ice (this reaction rate is only slightly slower at low temperatures).
6. Optional: Quench and unreacted Sulfo-SANPAH with 25 mM to 60 mM Tris and allow to react for 10-15 minutes at room temperature.
7. Desalt sample to remove unreacted Sulfo-SANPAH crosslinker (i.e. gel filtration, dialysis, etc.).
8. Photoactivate Sulfo-SANPAH with a high wattage UV lamp (wavelength between 300-460 nm). Carry out photolysis with lamp 5-10 cm directly above the reaction.

References:

Wong, S.S. (1993) CRC Chemistry of Protein Conjugation and Crosslinking. CRC Press, Boca Raton, Florida.