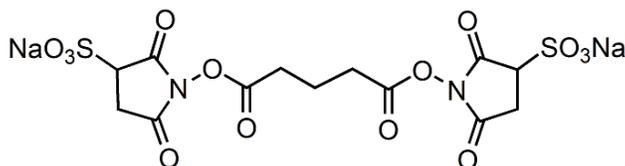


BS2G Crosslinker Protocol and Product Information Sheet

Product Category:	Homobifunctional Crosslinkers
Catalog Number(s):	c1126-100mg , c1126-1g , c1126-custom
Product Name:	BS2G Crosslinker
Alternative Name(s):	BS ² G; Sulfo-DSG; Bis(Sulfosuccinimidyl) glutarate; Glutaric acid-bis-(3-sulfo-N-hydroxysuccinimide ester)
CAS Number:	n/a
Chemical Formula:	C ₁₃ H ₁₂ N ₂ O ₁₄ S ₂ Na ₂
Molecular Weight:	530.35
Spacer Arm Length:	7.7 Å
Storage:	Upon receipt store at 4°C (shipped at ambient temperature).



General BS2G Crosslinking Protocol

1. Immediately before use, prepare a 50 mM solution of BS2G by dissolving 10 mg BS2G crosslinker in 350 µL of 25 mM Sodium Phosphate, pH 7.4 (do not use amine containing buffers for the conjugation reaction).
2. Using a 20-fold excess approach (20:1 Crosslinker:Protein), add crosslinker solution to the protein sample, so that the final crosslinker concentration is between 0.5 to 5 mM.
3. 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).
4. Quench and unreacted BS2G crosslinking reagent with 25 mM to 60 mM Tris and allow to react for 10-15 minutes at room temperature.
5. Desalt sample to remove unreacted crosslinker (i.e. gel filtration, dialysis, etc.)

References:

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

Kotite, N.J., Staros, J.V., Cunningham, L.W. (1984). Biochemistry, 23, 3099-3104.

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