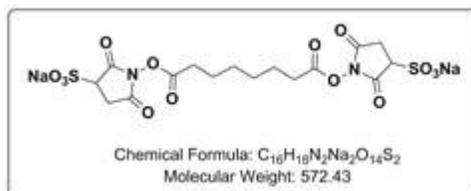


[BS₃ Crosslinker](#)

Product Numbers: 13306-10x5, 13306-100, 13306-1

Product Information Bulletin



Product Background

Alternative Names: Sulfo-DSS, BS₃ linker, BS₃ Crosslinker; Di-sulfosuccinimidyl suberate, Bis-(Sulfosuccinimidyl) suberate, Di(N-sulfosuccinimidyl) suberate

Spacer Length: 11.4 Å

Country of Origin: USA

Bis-(Sulfosuccinimidyl) suberate (BS₃) is a water soluble, amine reactive, homobifunctional crosslinker. BS₃ is routinely used to create a stable amide linkage between two interacting proteins. BS₃ linker can be added directly to the reaction mixture, eliminating the need to first dissolve in organic solvent.

General BS₃ Crosslinking Protocol

1. Allow BS₃ to warm to room temperature before opening (To avoid drawing moisture into vial).
2. Dissolve proteins to be crosslinked in [Phosphate Buffered Saline](#) (0.1 M Sodium Phosphate, 0.15 M sodium chloride), pH 7.0 to 8.0.

Note: 100 mM Carbonate/Bicarbonate or 20-50 mM [MES](#) are also suitable for conjugation.

3. Immediately before use, dissolve BS₃ in [DMF](#) or [DMSO](#) at 10 to 50 mM (Alternatively, BS₃ can be added directly to sample or pre-dissolved in buffer right before use).
4. Add the crosslinker solution to the protein solution to achieve a 10 to 20 molar excess of crosslinker to protein.

Note: Generally, the lower the protein concentration, the higher the excess of BS₃.

5. Allow reaction to proceed for 45 minutes at room temperature or 2-3 hours at 4 °C.
6. Once the reaction is complete, add an amine containing buffer to quench the reaction, such as [glycine](#) or Tris at 10 to 25 mM. Adding an aliquot of a 1 M stock solution of Tris buffer works well for this step.
7. Allow quenching reaction to proceed for 20 minutes at room temperature.
8. After quenching reaction, the unreacted and quenched crosslinkers, and other small molecules can be removed through gel filtration or dialysis.

Product Description

Package Size and Product Numbers

10x 5 mg.....13306-10x5

100 mg..... 13306-100

1 gram..... 13306-1

Product Name: [BS₃ Crosslinker](#)

Product Specifications

- Appearance: White Solid
- Qualitative NMR: Passes
- Quantitative NMR: ≥ 90%

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