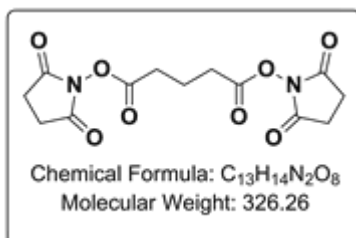




DSG Crosslinker

Product Numbers: 13301-100, 13301-1

Product Information Bulletin



Product Background

Alternative Names: DSG, disuccinimidyl glutarate, DSG crosslinker, Succinimidyl glutarate, Di(N-succinimidyl) glutarate, 6-(2,5-dioxopyrrolidin-1-yl)-5-oxohexanoate

Spacer Length: 7.7 Å

Country of Origin: USA

Disuccinimidyl glutarate (DSG) is an amine reactive homobifunctional crosslinker. DSG is commonly used to create a covalent bond between two interacting proteins. DSG is cell membrane permeable, allowing cellular samples to be crosslinks to be created for membrane proteins and cytosolic proteins.

General DSG Crosslinking Protocol

1. Allow DSG to warm to room temperature before opening.
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.
3. Immediately before use, dissolve DSG in DMF or DMSO at 10 to 20 mM.
4. Add the crosslinker solution to the protein solution to achieve a 10 to 20 molar excess of crosslinker to protein. Generally, the lower the protein concentration of the higher the excess of DSG.
5. Allow reaction to proceed for 45 minutes at room temperature or 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 aliquote 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

100 mg..... 13301-100

1 gram..... 13301-1

Product Name: DSG Crosslinker

CAS Number:.....[79642-50-5](#)

Product Specifications

- Appearance: White Solid
- Qualitative NMR: Passes
- Quantitative NMR: $\geq 97\%$

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