

Product Data Sheet

Product Name: BS3 Crosslinker disodium

Cat. No.: GC62879

Chemical Properties

Cas. No. 127634-19-9

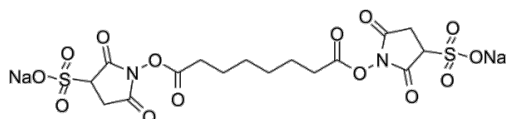
Formula $C_{16}H_{18}N_2Na_2O_{14}S_2$ M.Wt 572.43

Solubility DMSO : 125 mg/mL (218.37 mM; Need ultrasonic) Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Protocol

Cell surface protein crosslinking^[1]

This protocol only provides a guideline, and should be modified according to your specific needs.

1. Cell Pre-treatment

Sub-confluent cells were incubated in serum-free medium overnight.

Caution: Product has not been fully validated for medical applications. For research use only.

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2. Cell Treatment and Stimulation

The cells were washed twice with Ca^{2+} - and Mg^{2+} -free PBS and then treated with serum-free media containing BSA 2 $\mu\text{g}/\text{ml}$ (control), EGF (20ng/ml) (with or without galectin-3, 2 $\mu\text{g}/\text{ml}$ or galectin-3C, 2 $\mu\text{g}/\text{ml}$) for 10min at 37°C and 5% CO_2 .

3. Cross-Linking Reaction

The cells were washed with precooled Ca^{2+} - and Mg^{2+} -free PBS and then incubated with 3mM BS3 Crosslinker disodium (dissolved in Ca^{2+} - and Mg^{2+} -free PBS) on ice for 20min.

4. Reaction Termination and Cell Lysis

Excess BS3 Crosslinker disodium was quenched with 250mM glycine (dissolved in PBS) for 5min at 4°C. The cells were washed three times with precooled PBS, lysed in SDS-sample buffer, and analyzed by immunoblotting with antibodies against EGFR.

References:

[1] Piyush T, Chacko AR, Sindrewicz P, et al. Interaction of galectin-3 with MUC1 on cell surface promotes EGFR dimerization and activation in human epithelial cancer cells. Cell Death Differ. 2017 Nov;24(11):1937-1947.

Background

BS3 Crosslinker disodium is a water-soluble, amine-reactive homobifunctional crosslinker. BS3 Crosslinker disodium is commonly used for crosslinking between proteins and is suitable for studying protein structure, preparing immunogens, and creating probes for Western blotting and ELISA^[1].

References:

[1] Alegria-Schaffer A. General protein-protein cross-linking. Methods Enzymol. 2014;539:81-7.

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