

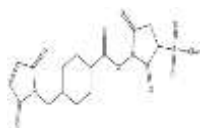
# Sulfo-SMCC

**ALTERNATE NAME:** 4-(N-Maleimidomethyl)cyclohexane-1-carboxylic acid 3-sulfo-N-hydroxysuccinimide ester sodium salt

**CATALOG#:** 2320-50, 100, 1000, Set

**AMOUNT#:** 50 mg, 100 mg, 1 g, 1 set (10 x 2 mg)

## STRUCTURE:



**MOLECULAR FORMULA#:** C<sub>16</sub>H<sub>17</sub>N<sub>2</sub>NaO<sub>9</sub>S

**MOLECULAR WEIGHT#:** 436.37

**CAS#:** 92921-24-9

**APPEARANCE:** White to off-white solid

**SOLUBILITY:** H<sub>2</sub>O (>10 mg/ml)

**PURITY:** ≥90% by NMR

**STORAGE:** -20 °C. Protect from moisture

## DESCRIPTION:

A water-soluble heterobifunctional protein crosslinker.

## KEY FEATURES:

- Amine reactive Sulfo-NHS ester that crosslinks efficiently with primary amine-containing molecules
- Has a maleimide functional group that can be utilized to react specifically with cysteines or sulfhydryl (-SH) groups
- Water-soluble; can be used under physiologic conditions
- Has a spacer arm length of 8.3 Å (9 atom)
- Unlike other maleimide-activated antibodies, those made with Sulfo-SMCC crosslinkers are often more stable, due to the inductive stabilizing effects of the cyclohexyl ring moiety

## APPLICATIONS:

- Routinely used to prepare hapten-carrier protein and antibody-enzyme conjugates, such as HRP conjugation.
- Wide range of uses for both small molecule reactions and large biomolecule applications.

## REFERENCES:

Brinkley, M.A. (1992). *Bioconjugate Chem.* **3**, 2-13; Hashida, S., *et al.* (1984). *J. Appl. Biochem.* **6**, 56-63; Yoshitake, S., *et al.* (1982). *J. Biochem.* **92**, 1413-1424.

## RELATED PRODUCTS:

Sulfo-NHS (Cat. No. 2321-500, 5G, 1 EA)

Sulfo-NHS-Biotin (Cat. No. 2322-50, 250, 1 EA)

Sulfo-NHS-SS-Biotin (Cat. No. 2323-50, 250, 1 EA)

Sulfo-SANPAH (Cat. No. 2324-50, 250)

Sulfo-LC-SPDP (Cat. No. 2325-50, 250)

Sulfo-NHS-LC-Biotin (Cat. No. 2326-50, 250, 1EA)

BS3 Crosslinker (Cat. No. 2327-50, 250, 1000, 1EA)

SPDP Crosslinker (Cat. No. 2328-50, 250)

Biotin-HPDP (Cat. No. 2329-50, 250)

Traut's Reagent (Cat. No. 2330-50, 250, 1000)

N-Hydroxy succinimide (Cat. No. 2331-1G, 5G, 25G)

DTSSP Crosslinker (Cat. No. 2337-50, 250)

**FOR RESEARCH USE ONLY! Not to be used on humans.**