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Premium Grade Sulfo-SMCC (Pierce™)

产品编号： PG82085

保存条件： Store at -20°C.

产品介绍： Thermo Scientific Pierce Premium Grade Sulfo-SMCC is our highest quality formulation of amine-to-sulfhydryl crosslinker, specially characterized for applications where product integrity and risk minimization are paramount.

Compared to the standard grade product, Premium Grade Sulfo-SMCC provides more clearly defined quality and product support by including (a) increased analytical testing and product characterization, (b) greater batch-specific information and quality assurance review, (c) extensive lot sample retention and (d) change control notification. Sulfo-SMCC is a water-soluble, non-cleavable and membrane-impermeable amine-to-sulfhydryl crosslinker that contains NHS-ester and maleimide reactive groups at opposite ends of a medium-length cyclohexane spacer arm (8.3 angstroms). NHS esters react with primary amines at pH 7-9 to form stable amide bonds. Maleimides react with sulfhydryl groups at pH 6.5-7.5 to form stable thioether bonds. The maleimide groups of Sulfo-SMCC are unusually stable up to pH 7.5 because of the cyclohexane bridge in the spacer arm. Because it contains the hydrophilic sulfonyl moiety, Sulfo-SMCC is soluble up to nearly 10 mM in water and many commonly used buffers, thus avoiding the use of organic solvents which may perturb protein structure.

Features of Sulfo-SMCC:

· Sulfo-SMCC—a water-soluble amine-to-sulfhydryl crosslinker with a stabilizing cyclohexane spacer arm
· High quality—identity and purity confirmed by several tests, including quantitative NMR
· Product integrity—enhanced level of testing and characterization compared to standard grade
· Lot retention—ample supply of past lots retained to ensure future process testing
· Change management—Change Control Notification (CCN) service
· Consistent manufacture—batch-specific manufacturing documentation review

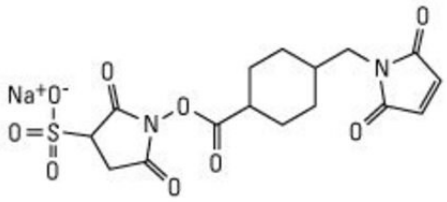
Applications:

· Enzyme labelling of antibodies - both enzyme and antibody specificity can be preserved
· Create specific bioconjugates via one- or two-step crosslinking reactions
· Create sulfhydryl-reactive, maleimide-activated carrier proteins for coupling haptens

Product References:

Crosslinker Application Guide -- search for recent literature references for this product

Chemical structure of Sulfo-SMCC crosslinking reagent



Sulfo-SMCC

Sulfosuccinimidyl 4-(*N*-maleimidomethyl)cyclohexane-1-carboxylate

MW 436.37

Spacer Arm 8.3 Å