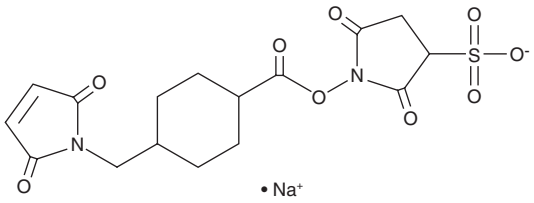
PRODUCT INFORMATION

Sulfo-SMCC (sodium salt)

Item No. 35692

CAS Registry No.: 92921-24-9
Formal Name: 4-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)methyl]-cyclohexanecarboxylic acid, 2,5-dioxo-3-sulfo-1-pyrrolidinyl ester, monosodium salt
Synonym: Sulfosuccinimidyl 4-(N-maleimidomethyl) cyclohexane-1-carboxylate
MF: $C_{16}H_{17}N_2O_9S \bullet Na$
FW: 436.4
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Sulfo-SMCC (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the sulfo-SMCC (sodium salt) in the solvent of choice, which should be purged with an inert gas. Sulfo-SMCC (sodium salt) is soluble in acetonitrile. It is also soluble in water. We do not recommend storing the aqueous solution for more than one day.

Description

Sulfo-SMCC is a water-soluble protein cross-linking reagent that contains an anime-reactive sulfo-N-hydroxysuccinimide (sulfo-NHS) ester and a sulfhydryl-reactive maleimide group that can be used in the conjugation of proteins.[1,2] It has been used to conjugate anti-programmed cell death ligand 1 (PD-L1) antibodies to the surface of platelets to induce antitumor immunity in xenograft models, as well as to conjugate Golgi-targeting peptides to platelet microparticle-mimetic nanoplatforms for the delivery of all-*trans* retinoic acid (Item No. 11017) to isolated human synovial fibroblasts from patients with rheumatoid arthritis.

References

1. Gao, Y., Chen, X., Wang, B., *et al.* Engineering platelets with PDL1 antibodies and iron oxide nanoparticles for postsurgical cancer immunotherapy. *ACS Appl. Bio Mater.* **6(1)**, 257-266 (2023).
2. Deng, C., Zhao, X., Chen, Y., *et al.* Engineered platelet microparticle-membrane camouflaged nanoparticles for targeting the golgi apparatus of synovial fibroblasts to attenuate rheumatoid arthritis. *ACS Nano* **16(11)**, 18430-18447 (2022).

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