

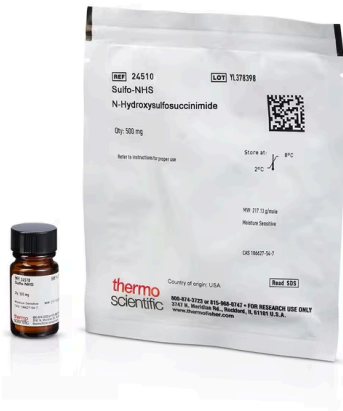
ThermoFisher
SCIENTIFIC

Q

🛒

Home › Shop All Products › Protein Analysis Reagents › Crosslinking, Labeling And Protein Modification › Crosslinking Reagents ›

Sulfo-NHS (N-Hydroxysulfosuccin...



- Q

Certificates
- SDS
- 🔖

Citations & References (5)

Thermo Scientific™

Sulfo-NHS (N-hydroxysulfosuccinimide), No-Weigh™ Format

Thermo Scientific Pierce Sulfo-NHS, No-Weigh Format is a chemical modification reagent for converting carboxyl groups to amine-reactive NHS esters

Read more

Have Questions? [Contact Us](#)

Change view

⋮

📄

Catalog Number	Quantity
24510	500 mg
A39269	10 x 2 mg
24525	5 g

Catalog number 24510

Price (USD)

-

Learn where to buy ›



Request bulk or custom format

- Product Overview
- Ask our AI about this Product
- FAQ
- Figures
- Recommendations
- Documents

Thermo Scientific Pierce Sulfo-NHS, No-Weigh Format is a chemical modification reagent for converting carboxyl groups to amine-reactive NHS esters for bioconjugation, crosslinking, labeling and immobilization methods.

Features of Sulfo-NHS:

- Efficiency of EDC-mediated coupling is increased in the presence of Sulfo-NHS
- Amine-reactive NHS esters or Sulfo-NHS esters can be made with any carboxyl-containing molecule
- Sulfo-NHS derivatives are usually directly water-soluble (can be added directly to physiologic buffers) and membrane-impermeable (can be used for cell surface labeling)
- High-purity, crystalline Sulfo-NHS can be used to create high-quality activated derivatives

Sulfo-NHS (*N*-hydroxysulfosuccinimide) enables control and modification of carbodiimide crosslinking reactions involving activation of carboxylates (—COOH) for conjugation with primary amines (—NH2). Derivatives are easily synthesized by mixing the Sulfo-NHS with a carboxyl-containing molecule and a dehydrating agent such as the carbodiimide EDC (EDAC). The method is the basis for generating many types of protein labeling reagents, including amine-reactive fluorescent dyes, biotin affinity tags and pegylation compounds.

Applications:

- Improve efficiency of EDC coupling reactions
- Convert carboxyls to amine-reactive Sulfo-NHS esters
- Crosslink proteins to carboxyl-coated beads or surfaces more efficiently
- Activate nanoparticles with amine-reactive Sulfo-NHS esters

Specifications for Sulfo-NHS:

We manufacture *N*-hydroxysulfosuccinimide to the highest possible specifications to produce the most specific bioconjugates, to ensure the integrity of your data and to provide you with the highest degree of consistency. Each lot of Sulfo-NHS is tested to meet the following minimum specifications:

- **Purity**—Greater than 95% by quantitative NMR (the highest standard for crosslinker purity); average lot purity is greater than 99%
- **Solubility**—Sample dissolves at 2 mg/mL in deionized water to yield a clear, colorless solution
- **Identity**—IR scan shows only peaks characteristic of *N*-hydroxysulfosuccinimide

Product References:

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

Related Products

- [Pierce™ Premium Grade Sulfo-NHS \(N-hydroxysulfosuccinimide\)](#)
- [NHS \(N-hydroxysuccinimide\)](#)
- [EDC \(1-ethyl-3-\(3-dimethylaminopropyl\)carbodiimide hydrochloride\)](#)

For Research Use Only. Not for use in diagnostic procedures.

Specifications	
Cell Permeability	No
Description	Sulfo-NHS
Form	Powder
Labeling Method	Chemical Labeling
Molecular Weight (g/mol)	217.13
PEGylated	No
Product Line	Pierce



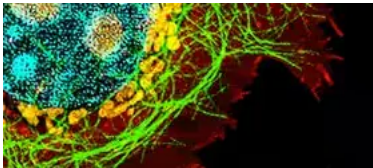
Shipping Condition	Ambient
Solubility	Water
Water Soluble	Yes
Chemical Reactivity	Amine-Carboxyl
Cleavable	No
Crosslinker Type	Heterobifunctional
Format	Standard, Single-use, Premium-grade
Product Type	Crosslinker
Spacer	Short (<10 Å)
Unit Size	Each

Contents & Storage

Upon receipt store at 4°C.



[Choose Gibco Cell Culture Media for reproducible results >](#)



[5 Steps to Live-Cell Imaging >](#)
[5 Steps to Fixed-Cell Imaging >](#)

 Have questions about this product? Ask our AI assisted search.

 Ask a question about this product.

Can you provide the shelf-life for Sulfo-NHS (N-hydroxysulfosuccinimide)?

Can you provide the shelf life for Sulfo-NHS (N-hydroxysulfosuccinimide)?



Frequently asked questions (FAQs)

- Can NHS and EDC stock solutions be made for long-term storage before use? ▼
- Are there any substances that interfere with NHS reactions? ▼
- What is the difference between NHS and Sulfo-NHS? ▼
- How are NHS and Sulfo-NHS used? ▼
- What are NHS and Sulfo-NHS used for? ▼

[View all Sulfo-NHS \(N-hydroxysulfosuccinimide\), 500 mg FAQs](#) >

Figures

	NHS	Sulfo NHS
Molecular formula	C ₅ H ₇ NO ₃	C ₅ H ₇ NO ₅ S
Molecular weight	115.09	217.13
CAS Number	600-82-6	105627-54-7
Storage conditions	Store at 4°C, protect from moisture, use only fresh solutions	

HisPur Ni-NTA and HisPur Cobalt Resins maximize yield and purity

Sulfo-NHS plus EDC (carbodiimide) crosslinking reaction scheme

Chemical structures of NHS and Sulfo-NHS reagents

Greater Sulfo-N

Customers who viewed this item also viewed

Catalog number: 22980

[EDC \(1-ethyl-3-\(3-dimethylaminopropyl\)ca...](#)

Price (USD) / Each

164.00

Add to cart

Catalog number: 24500

[NHS \(N-hydroxysuccinimide\)](#)

Price (USD) / Each

78.75

Add to cart

Catalog number: PG82079

[Pierce™ Premium Grade EDC \(1-ethyl-3-\(3-...](#)

Price (USD) / Each

125.00

Add to cart

Catalog number: PG82071

[Pierce™ Premium Grade Sulfo-NHS \(N-...](#)

Price (USD) / Each

313.00

Add to cart

https://www.thermofisher.com/order/catalog/product/24510?SID=srch-srp-24510

4/6



Documents & Downloads

Certificates

Search by lot number or partial lot number

Search

Lot #	Certificate Type	Date	Catalog Number(s)
3352531	Certificate of Analysis	Feb 24, 2026	24525
3295638	Certificate of Analysis	Feb 04, 2026	24510
3295654	Certificate of Analysis	Jan 02, 2026	24525
3295669	Certificate of Analysis	Dec 30, 2025	A39269
3283830	Certificate of Analysis	Dec 16, 2025	24510

5 results displayed, search above for a specific certificate

[Request a Certificate](#)

Safety Data Sheets



Product Information

Manuals



[User Guide: NHS and Sulfo-NHS](#)

Citations & References (5)

Citations & References

[Investigation of platelet responses and clotting characteristics of in situ albumin binding surfaces.](#)

Authors: Guha Thakurta S, Miller R, Subramanian A
Journal: J Biomater Appl
PubMed ID: 20819918

[Mouse monoclonal antibodies to anthrax edema factor protect against infection.](#)

rs: Leysath CE, Chen KH, Moayeri M, Crown D, Fattah R, Chen Z, Das SR, Purcell RH, Leppla SH

Abstract

'The response of biomaterial surfaces when exposed to blood is in part dependent upon the nature and composition of the adsorbed layer of proteins. Surfaces passivated with albumin have been shown to reduce platelet adhesion and activation. In an attempt to develop surfaces that can selectively and specifically bind albumin, ... [More](#)

'Bacillus anthracis is the causative agent of anthrax, and the tripartite anthrax toxin is an essential element of its pathogenesis. Edema factor (EF), a potent adenyl cyclase, is one of the toxin components. In this work, anti-EF monoclonal antibodies (MAb) were produced following immunization of mice, and four of the ... [More](#)



Metabolism of vertebrate amino sugars with N-glycolyl groups: elucidating the intracellular fate of the non-human sialic acid N-glycolylneuraminic acid. [↗](#)

Authors: Bergfeld AK, Pearce OM, Diaz SL, Pham T, Varki A

Journal: J Biol Chem

PubMed ID: 22692205

'The two major mammalian sialic acids are N-acetylneuraminic acid and N-glycolylneuraminic acid (Neu5Gc). The only known biosynthetic pathway generating Neu5Gc is the conversion of CMP-N-acetylneuraminic acid into CMP-Neu5Gc, which is catalyzed by the CMP-Neu5Ac hydroxylase enzyme. Given the irreversible nature of this reaction, there must be pathways for elimination or ... [More](#)

Surface modification, functionalization and bioconjugation of colloidal inorganic nanoparticles. [↗](#)

Authors: Sperling RA, Parak WJ

Journal: Philos Trans A Math Phys Eng Sci

PubMed ID: 20156828

Inorganic colloidal nanoparticles are very small, nanoscale objects with inorganic cores that are dispersed in a solvent. Depending on the material they consist of, nanoparticles can possess a number of different properties such as high electron density and strong optical absorption (e.g. metal particles, in particular Au), photoluminescence in the ... [More](#)

The conserved His-144 in the PsbP protein is important for the interaction between the PsbP N-terminus and the Cyt b559 subunit of photosystem II. [↗](#)

Authors: Ido K, Kakiuchi S, Uno C, Nishimura T, Fukao Y, Noguchi T, Sato F, Ifuku K

Journal: J Biol Chem

PubMed ID: 22707728

The PsbP protein regulates the binding properties of Ca(2+) and Cl(-), and stabilizes the Mn cluster of photosystem II (PSII); however, the binding site and topology in PSII have yet to be clarified. Here we report that the structure around His-144 and Asp-165 in PsbP, which is suggested to be ... [More](#)

Other products to consider

Catalog number: 12605028	Catalog number: 10566024	Catalog number: 14190136
TrypLE™ Express Enzyme (1X), phenol red, 500 mL	DMEM, high glucose, GlutaMAX™ Supplemen...	DPBS, no calcium, no magnesium, 1000 mL...
Price (USD) / Each	Price (USD) / Each	Price (USD) / Each
115.65	410.65	50.65
Online exclusive	Online exclusive	Online exclusive
130.00	451.00	54.75
Save 14.35 (11%)	Save 40.35 (9%)	Save 4.10 (7%)
Add to cart	Add to cart	Add to cart