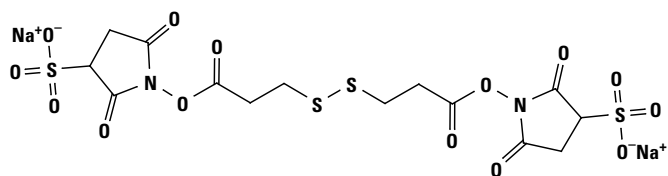


### DTSSP (Sulfo-DSP), Thermo Scientific Pierce

**Thermo**  
SCIENTIFIC

NEW

PN



**DTSSP**  
M.W. 608.51  
Spacer Arm 12.0 Å

Membrane impermeable, thiol-cleavable.

- Water soluble
- Cleavable by reducing agents
- Reactive groups: sulfo-NHS ester (homobifunctional)
- Reactive toward: amino groups

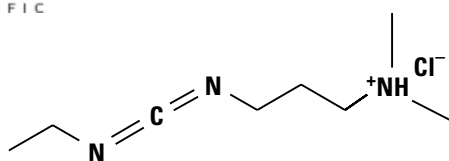
Catalogue No	Description	Quantity
<b>PN21578</b>	<b>DTSSP</b> (3,3'-Dithiobis[sulfosuccinimidyl propionate])	50mg

### EDC, Thermo Scientific Pierce

**Thermo**  
SCIENTIFIC

NEW

PN



**EDC**  
M.W. 191.70



Water soluble carbodiimide for rapid preparation of peptide conjugates. 1-Ethyl-3-[3-dimethylaminopropyl] carbodiimide hydrochloride (EDC or EDAC) is a zero-length crosslinker for coupling carboxyl groups to primary amines.

- Zero-length crosslinker
- Amide bond formed provides a neutral linkage, which is ideal for preparing peptides and antigens

- Adding Sulfo-NHS (**PN24510**) enhances the coupling reaction at physiological pH values
- Reactive group: carbodiimide
- Reactive toward: amino and carboxyl groups

#### Applications

- Conjugate carboxyl to amine groups in peptides and proteins
- Convert carboxyls to amine-reactive Sulfo-NHS esters
- Crosslink proteins to carboxyl-coated beads or surfaces
- Activate nanoparticles with amine-reactive Sulfo-NHS esters
- Couple haptens to carrier proteins (e.g., attach a peptide to KLH)
- DNA labelling through 5' phosphate groups

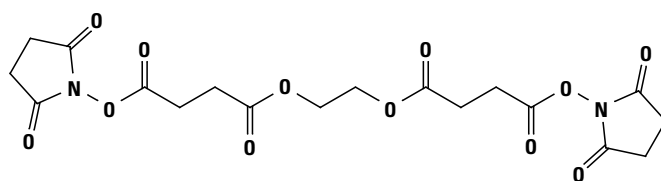
Catalogue No	Description	Quantity
<b>PN77149</b>	<b>EDC</b> (1-Ethyl-3-[3-dimethylaminopropyl] carbodiimide hydrochloride)	10mg
<b>PN22980</b>	<b>EDC</b> 1-Ethyl-3-[3-dimethylaminopropyl] carbodiimide hydrochloride	5g
<b>PN22981</b>	<b>EDC</b>	25g

### EGS, Thermo Scientific Pierce

**Thermo**  
SCIENTIFIC

NEW

PN



**EGS**  
M.W. 456.36  
Spacer Arm 16.1 Å

Long spacer arm and cleavable under gentle conditions.

- Cleavable at pH8.5 using Hydroxylamine for 3hr to 6hr at 37°C
- Lactose dehydrogenase retained 60% of its activity after reversible crosslinking with EGS
- Reactive groups: NHS esters (homobifunctional)
- Reactive toward: amino groups

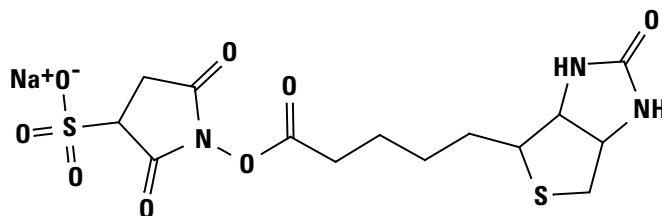
Catalogue No	Description	Quantity
<b>PN21565</b>	<b>EGS</b> (Ethylene glycol bis[succinimidylsuccinate])	1g

### Sulfo-NHS-Biotin, Thermo Scientific Pierce

**Thermo**  
SCIENTIFIC

NEW

PN



**Sulfo-NHS-Biotin**  
M.W. 443.43  
Spacer Arm 13.5 Å



Water-soluble analogue of NHS-Biotin.

- Shorter spacer arm than Sulfo-NHS-LC-Biotin
- Reacts with primary amines at pH7 to pH9 in non-amine containing buffers such as borate, carbonate or phosphate buffers
- Negative charge of -SO<sub>3</sub> keeps biotinylation localised at the cell surface so reagent does not pass through cell membrane
- Water solubility eliminates the need for harmful organic solvents

Catalogue No	Description	Quantity
<b>PN21217</b>	<b>Sulfo-NHS-Biotin</b>	100mg
<b>PN21326</b>	<b>Sulfo-NHS-Biotin, no-weigh format</b>	8 x 2mg