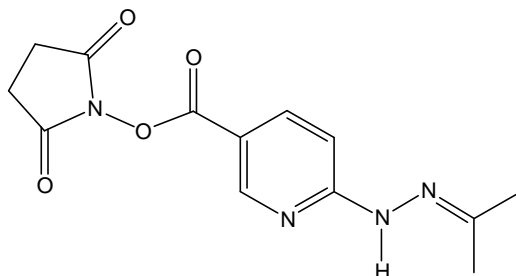


Product Data Sheet/Certificate of Analysis

S-HyNic (succinimidyl 6-hydrazinonicotinate acetone hydrazone)

Storage: Store desiccated at or below room temperature



$C_{13}H_{14}N_4O_4$ MW 290.2

Catalog Number:	S-9002-1-01	Unit Size:	10.0 mg
Lot Number:		Components:	S-HyNic

Test	Specification	Result
Appearance (color)	Off white to pale brown	Passed
Appearance (form)	Solid	Passed
Purity (1H NMR)	> 90%	Passed
TLC: Ethyl acetate (100%)	Single spot Rf 0.67	Passed
Solubility	>50mg/mL in DMF	Passed

QC Release Date	Expiration Date:
Released By:	

Product Description

S-HyNic (Succinimidyl 6-hydrazinonicotinate acetone hydrazone) is a heterobifunctional linker used for introducing protected hydrazinonicotinamide functional groups (HyNic) onto proteins and other primary amine-containing biological molecules through a reactive N-hydroxysuccinimide (NHS) ester.

Comments

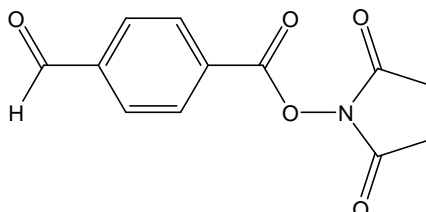
Store under inert atmosphere desiccated. Not for internal or external use in humans.



Product Data Sheet/Certificate of Analysis

S-4FB (succinimidyl 4-formylbenzoate)

Storage: Store desiccated at or below room temperature



$C_{12}H_9NO_5$; Mol. Wt 247.2

Catalog Number:	S-9002-1-02	Unit Size:	10.0 mg
Lot Number:		Components:	S-4FB

Test	Specification	Result
Appearance (color)	White	Passed
Appearance (form)	Solid	Passed
Purity (1H NMR)	> 90%	Passed
HPLC analysis after packaging	Conforms to structure	Passed
TLC: Hexanes/ethyl acetate (1:1)	Single spot Rf 0. 53	Passed
Solubility	>50mg/mL in DMF	Passed

QC Release Date	Expiration Date:
Released By:	

Product Description

S-4FB (SFB) is a heterobifunctional linker that reacts with primary amines on biomolecules and converts them to 4-formylbenzamide (4-FB) moieties. Formylbenzamide-modified biomolecules form stable bis-aryl hydrazone conjugates on reaction with HyNic-modified biomolecules. 4FB groups incorporated on biomolecules and surfaces are stable for >2 months.

Comments

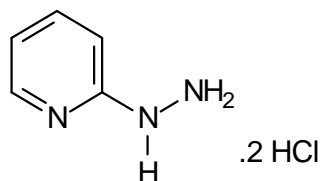
Store under inert atmosphere desiccated. Not for internal or external use in humans.



Product Data Sheet/Certificate of Analysis

2-Hydrazinopyridine.2HCL

Storage: Store at room temperature



$C_5H_6N_3 \cdot 2HCl$ MW 182.5

Catalog Number:	S-9002-1-03	Unit Size:	100.0mg
Lot Number:		Components:	2-Hydrazinopyridine.2HCL

Test	Specification	Result
Appearance (color)	Yellow	Passed
Appearance (form)	Solid	Passed
TLC:	Single spot	Passed

QC Release Date	Expiration Date:
Released By:	

Product Description

Quantitation of benzaldehyde moieties incorporated on proteins with 4FB.

Comments

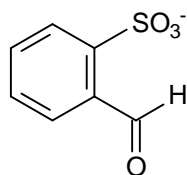
Store under inert atmosphere desiccated. Not for internal or external use in humans.



Product Data Sheet/Certificate of Analysis

2-Sulfobenzaldehyde

Storage: Store at room temperature



$C_7H_5O_4S.Na \cdot H_2O$ MW 208.17

Catalog Number:	S-9002-1-04	Unit Size:	100.0 mg
Lot Number:		Components:	2-Sulfobenzaldehyde

Test	Specification	Result
Appearance (color)	White	Passed
Appearance (form)	Solid	Passed
TLC:	Single spot	Passed

QC Release Date	Expiration Date:
Released By:	

Product Description

Used to quench hydrazine and hydrazide moieties on modified biomolecules.

Comments

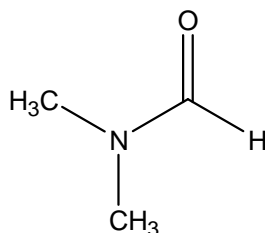
Store under inert atmosphere desiccated. Not for internal or external use in humans.



Product Data Sheet/Certificate of Analysis

Anhydrous DMF

Storage: Store at room temperature



C_3H_7NO , MW 73.09, CAS #: 68-12-2

Catalog Number:	S-9002-1-05	Unit Size:	1.5 mL
Lot Number:		Components:	-Dimethylformamide -Molecular sieves

Test	Specification	Result
Appearance (color)	Colorless, Clear	passed
Appearance (form)	Liquid	passed
1H NMR:	>95% pure	passed

QC Release Date:	Expiration Date:
Released By:	

Product Description

Used as a solvent.

Comments

Not for internal or external use in humans.



Product Data Sheet

10x Modification Buffer

Compound: 10x modification Buffer

Storage: Store at room temperature

Catalog Number:	S-9002-1-07	Purity:	Nuclease free
Lot Number:		Expiration:	
Components:	1.0 M Phosphate 1.5 M Sodium Chloride 0.05% Azide pH 7.2	Size:	1.5mL

Product Description

This is a buffering solution for use in modification reactions.

Comments

Adjust pH as necessary after dilution. Not for internal or external use in humans.



Product Data Sheet

10x Conjugation Buffer

Compound: 10x Conjugation Buffer

Storage: Store at room temperature

Catalog Number:	S-9002-1-08	Purity:	Nuclease free
Lot Number:		Expiration:	
Components:	1.0 M Phosphate 1.5 M Sodium Chloride 0.05% Azide pH 6.0	Size:	1.5mL

Product Description

This is a buffering solution for use in conjugation reactions.

Comments

Adjust pH as necessary after dilution. Not for internal or external use in humans.

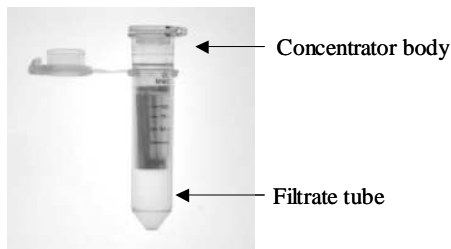


Product Data Sheet

Vivaspin Diafiltration Spin Filter

Compound: Vivaspin Diafiltration Spin Filter

Storage: Store at room temperature



Catalog Number:	S9002-1-10	Purity:	N/A
Lot Number:		Expiration:	N/A
Components:	Vivaspin Diafiltration Spin Filter	Size:	4 each

Product Description

VIVASPIN 500 spin filter are used to concentrate dilute protein samples prior to modification.

Comments

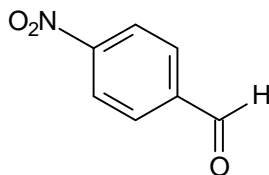
Not for internal or external use in humans.



Product Data Sheet/Certificate of Analysis

4-Nitrobenzaldehyde

Storage: Store at room temperature



$C_7H_5NO_3$ Mol. Wt.: 151.12

Catalog Number:	S-9002-1-12	Unit Size:	100.0 mg
Lot Number:		Components:	4-Nitrobenzaldehyde

Test	Specification	Result
Appearance (color)	Yellow	Passed
Appearance (form)	Solid	Passed
TLC:	Single spot	Passed

QC Release Date	Expiration Date:
Released By:	

Product Description

Quantitation of hydrazine and hydrazide moieties incorporated on proteins with S-HyNic and SHTH respectively.

Comments

Not for internal or external use in humans.

