

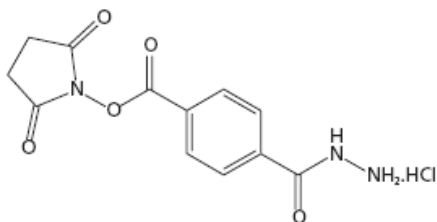
SHTH Cross-Linking Kit

Catalog Number: QS-9003-1 **Size:** Kit **Price:** \$495.00

The SHTH Crosslinking Kit provides a powerful yet simple technology for labeling peptides, proteins, carbohydrates, and nucleic acids. The kit provides the heterobifunctional linkers S-4FB and SHTH along with reagents for quantifying fluorophores, biotin, and other tags with a variety of proteins.

SHTH

(Succinimidyl 4-hydrazidobenzamide hydrochloride)



$C_{12}H_{11}N_3O_5HCl$ — MW 313.69 — white solid

PRODUCT DESCRIPTION: This reagent is used to convert primary amines on biomolecules and surfaces to 4-hydrazidobenzamide moieties in a single step. Its advantages include reaction specificity, UV-traceability, and the unique control it brings to the entire conjugation process. SHTH readily reacts with primary amines on a protein (ϵ -amino group of lysine) via an NHS-ester. SHTH introduces a 4-hydrazidobenzamide moiety.

APPLICATIONS: SHTH is most widely used to produce a variety of antibody-related conjugates such as IgG-HRP, IgG-AP and IgG-oligo. Conjugates of other antibody fragments have also been made [scFv, Fab, and F(ab)']. SHTH is also used for the synthesis of numerous other conjugates including general protein-protein, protein-peptide, peptide-oligonucleotide, enzyme-oligonucleotide, and DNA or RNA-protein conjugates. Bioconjugates made using SHTH can be used in ELISA assays, Immuno-PCR, *in situ* detection (FISH), Westerns, Southern, and in many other biological applications.

SHTH Features

- Heterobifunctional linker used for making bioconjugates
- Introduces stable, unprotected aromatic hydrazides into biomolecules
- UV-traceable
- Reactive groups: NHS-ester, unprotected aromatic hydrazide
- Reactive towards: amino groups, aromatic aldehydes (4FB)

Product	Catalog#	Description	Size/Quantity
SHTH Crosslinking Kit	QS-9003-1	SHTH	10mg
		S-4FB	10mg
		4-nitrobenzaldehyde	100mg
		2-hydrazinopyridine-2HCl	100mg
		2-sulfobenzaldehyde	100mg
		DMF (anhydrous)	1.5ml
		10X Modification buffer	1.5ml
		10X Conjugation buffer	1.5ml
		Diafiltration Apparatus	4 per kit
		(5K MWCO)	