

Sulfo-SBED label transfer reagent, Thermo Scientific Pierce

Thermo
SCIENTIFIC

NEW

PN

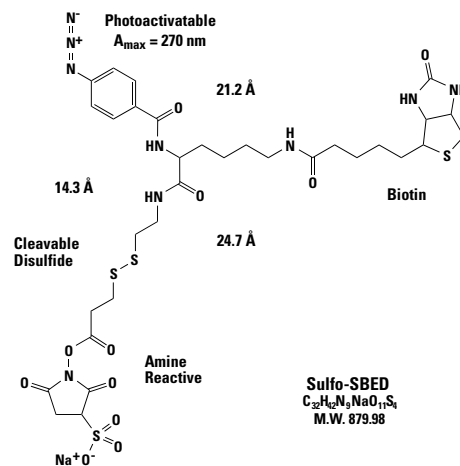
Exclusive biotin label transfer reagent is a powerful tool in protein interaction studies.

- Sulfo-NHS ester reacts with primary amines at pH7 to pH9
- Aryl azide conjugates randomly when activated with UV light

Sulfo-SBED is a multifunctional reagent for labelling a purified protein and then transferring the attached biotin tag onto specific interactors of that protein. Efficient attachment to the purified bait protein occurs at primary amines (e.g., side chain of lysine residues) via the sulfo-NHS-ester group.

Upon addition of the labelled bait protein to a sample containing putative interactors (prey proteins) and establishment of an interaction complex, crosslinking occurs by UV-activation of the aryl azide group. The crosslinked interaction complex can be purified or detected with streptavidin products via the integral biotin group. Cleaving the spacer arm by reducing the disulfide bond leaves the biotin group attached to the interactor (prey protein), allowing specific detection, purification and identification of the prey.

Catalogue No	Description	Quantity
PN33033	Sulfo-SBED label transfer reagent Sulfo-NHS-2-(6-[biotinamido]-2-(p-azido benzamido)-hexanoamido) ethyl-1,3'-dithiopropionate	10mg
PN33034	Sulfo-SBED label transfer reagent	8 x 1mg



Sulfo-SBED biotin label transfer kit - Western blot application, Thermo Scientific Pierce

Thermo
SCIENTIFIC

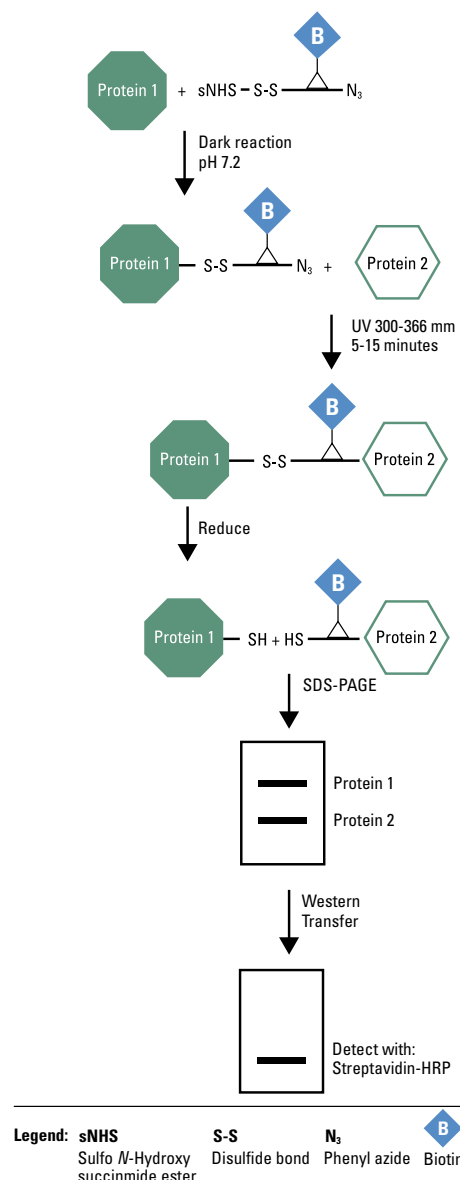
NEW

PN

Crosslink interacting proteins and transfer biotin label from bait protein to interacting prey protein for analysis.

The label transfer method requires a purified 'bait' protein and enables capture and detection of previously unknown interacting 'prey' proteins. The amine groups of the bait protein are modified via the sulfo-NHS moiety of Sulfo-SBED. This derivatised bait protein is then incubated in the dark with a lysate or with a purified putative 'prey' protein. When the bait-prey complex has formed, the reaction is exposed to UV-light, thereby activating the phenylazide moiety of Sulfo-SBED to covalently link together the bait and prey proteins. Upon reduction of this complex, the biotin label that first resided with the bait protein transfers to the prey protein, which can be detected by Western blot analysis using streptavidin-HRP.

Catalogue No	Description
PN33073	Sulfo-SBED biotin label transfer kit - Western blot application Sufficient reagents for 8 label transfer reactions for subsequent Western blot analysis. Includes: Sulfo-SBED, 8 x 1mg Phosphate buffered saline, 1 pack Label transfer buffer (20X), 200mL Streptavidin-Horseradish Peroxidase conjugate, 0.1mg Dithiothreitol (DTT), 8 x 7.7mg Slide-A-Lyzer MINI dialysis units plus float, 10K MWCO, 10 units/pkg



Thermo Scientific Sulfo-SBED biotin label transfer kit.