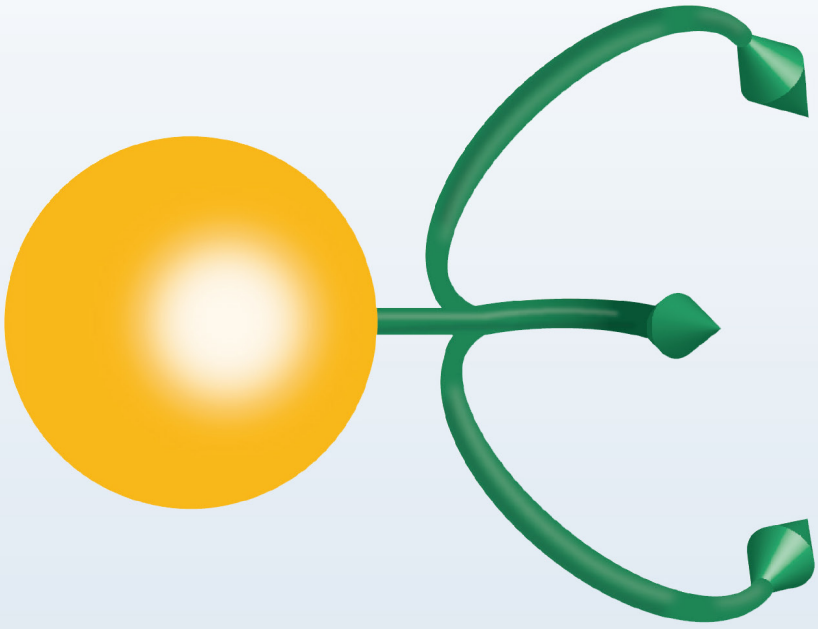
iba Solutions For Life Sciences

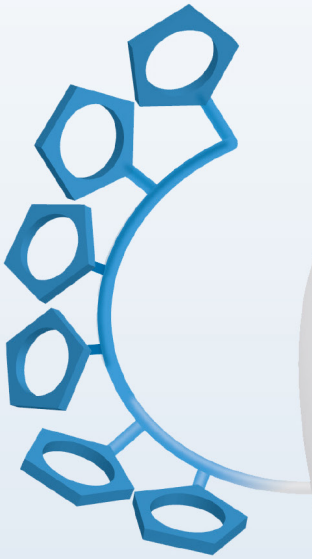
Product information

His-*STREP*PER

Strep your 6xHis-tag without cloning !

- Adapter molecule for fast and easy conversion of 6xHistidine-tag fusion protein to *Strep*-tag®II fusion proteins
- Transfer all *Strep*-tag®II advantages (pure & functional proteins) to 6xHis-tag proteins
- Cost- and time-effective





Clean up your 6xHis-tagged protein!

Strep-tag

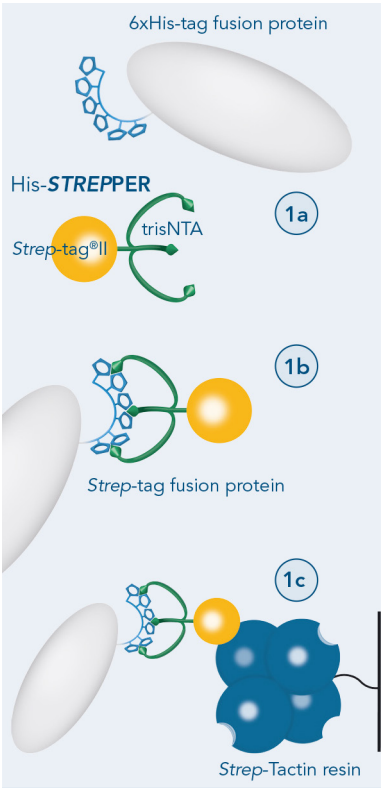


Fig1: His-*STREP*PER binds to 6xHis-tag fusion proteins and thereby converts them to *Strep*-tag fusion proteins. These can be purified by *Strep*-Tactin®.

His-*STREP*PER- the His/*Strep*-tag®II Adapter - is a molecule comprising *Strep*-tag®II (SA-WSHPQFEK) conjugated with a nickel charged trisNTA (see Fig.1a). It tightly binds to 6xHis-tag and thereby converts a 6xHis-tag fusion protein to a *Strep*-tag®II fusion protein without the need for cloning. (see Fig.1b)

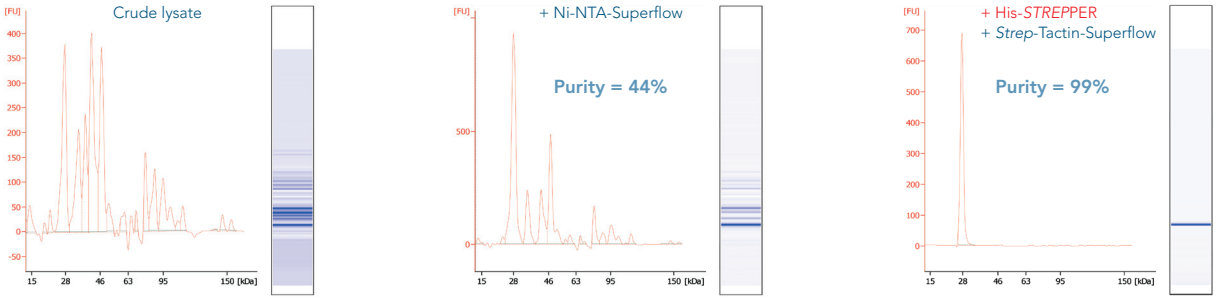
His-*STREP*PER should be applied to the His-tag fusion protein present in the initial cell lysate or to the His-tag eluate (after complete removal of imidazole) if a higher protein purity is required.

The converted *Strep*-tagged protein binds to a *Strep*-Tactin® column (see Fig.1c) and can be purified further according to the *Strep*-tag protocol.
Elution of the converted *Strep*-tagged protein can be performed either with imidazole (to elute the His-tag protein without the Adapter) or with desthiobiotin (to elute the *Strep*-tag protein).

His-*STREP*PER offers the advantages of the *Strep*-tag purification system, namely the high purity of the isolated proteins, without a time-consuming cloning process to His-tag users.

Cat. No.	
2-0920-005	His-*STREP*PER 500 µg
2-0920-999	His-*STREPPER* Trial Kit: His-*STREPPER* 150 µg, Gravity flow *Strep*-Tactin Superflow column 0.5 ml, Washing buffer (10x) 3ml, Elution buffer (10x) 1 ml, Regeneration buffer (10x) 2 ml

Superior results with His-*STREP*PER



Results of a regular (optimized) His-tag purification

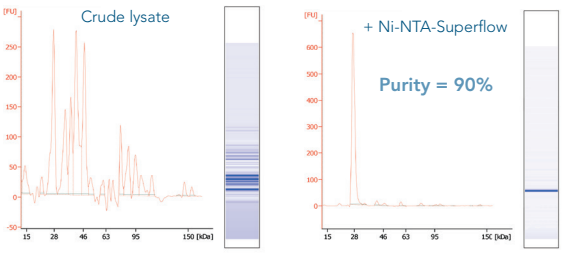


Fig2: His-*STREP*PER improves purification of 6xHis-tag fusion proteins
Purification of a GFP-6xHis-tag fusion protein from crude bacterial lysate using different protocols.
His-STREPPER/Strep-Tactin provides by far purer proteins than 6xHis-tag/Ni-NTA under physiological conditions (PBS pH8.0) (upper panel) and even better purity than 6xHis-tag/Ni-NTA under optimized buffer conditions (NaCl/imidazole) (lower panel).

Protein purification analysis was performed with an Agilent Bioanalyzer 2100 system instead of SDS-PAGE.

Version PI80-01-0001

More information: www.strep-tag.com

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