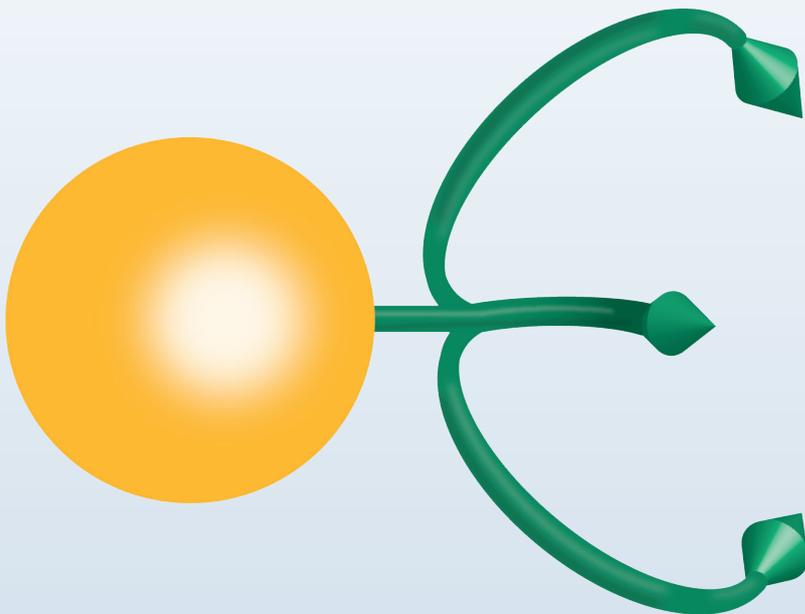


HIS-STREPPER

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



Strep-tag

Clean up your
6xHis-tagged
protein!

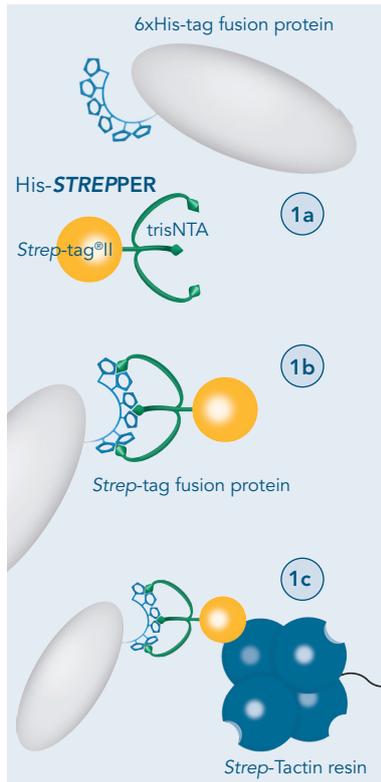


Fig1: His-STREPPER binds to 6xHis-tag fusion proteins and thereby converts them to Strep-tag fusion proteins. These can be purified by Strep-Tactin®.

His-STREPPER - 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-STREPPER 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.

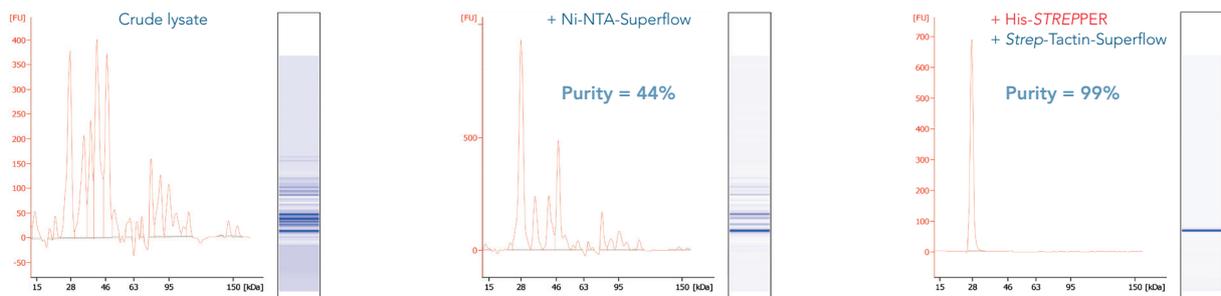
The converted Strep-tagged protein binds to a Strep-Tactin® column (see Fig.1c) and can be purified further according to the Strep-tag protocol.

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-STREPPER 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-STREPPER 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-STREPPER



Results of a regular (optimized) His-tag purification

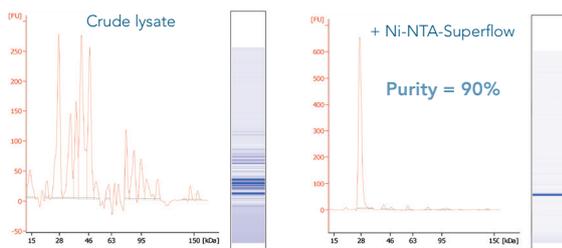


Fig2: His-STREPPER improves purification of 6xHis-tag fusion proteins

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.