TEV protease - (His-Strep)N-tag, endotoxin-free
1.0 mg, 1.01 mg/ml

Catalog UCT004
Lot 2708
product specification sheet: T004

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Product description

The Tobacco etch virus (TEV) protease is one of the most popular proteases to remove affinity tags from a recombinant protein containing the TEV-protease recognition site Glu-Asn-Leu-Tyr-Phe-Gln-Gly. Cleavage occurs between the Gln and Gly residues, resulting in a Gly at the amino terminus of the protein of interest.
The TEV protease is active in 2.5% sucrose, 0.01% TRITON X-100, PMSF, aprotinin, and leu-peptin. However, 0.01 % SDS completely inhibits TEV.

Reference sequences:	NC001555
	NP_062908
	NP_734212
	Swiss-prot P04517
Alternative names:	Peptidase_C4
	NIa-Pro protein
	Tobacco etch virus protease

TEV protease is produced with an N-terminal (His-Strep)-tag and purified to homogeneity. It is produced without any animal components. The N-terminal (His-Strep)-tag facilitates efficient removal of the protease by affinity chromatography after digestion is completed.

Protocol

For each application most optimal digestion conditions should be determined experimently. For large scale digestions a physiological buffer should be used, for example PBS.
To start with use the following digestion conditions:

* TEV-(Strep-His)N protease: 0.02 mg/ml working concentration
* Substrate (10-100 kDa): 1 - 5 mg/ml
* Incubation temperature: room temperature
* Incubation time : 1 hour - over night
* Digestion buffer: PBS

Digestion should be performed with gentle mixing.

Storage, stability and characteristics

Recombinant TEV-(His-Strep) protease is sterile and should be stored at -20 °C (stable for at least 6 months). The buffer contains PBS, 1 mM DTT, 50% glycerol without a preservative.

Endotoxin: < 0.4 EU/mg as detemined by a LAL assay
Purity: > 98 %

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