



ImmunoPrecise Antibodies (Europe) BV
Uppsalalaan 17, 10th floor, 3584 CT, Utrecht, The Netherlands
Phone: (+31)085 0160915
Website: www.products.ipatherapeutics.com
Orders: products@ipatherapeutics.com
Support: techsupport@ipatherapeutics.com

T004

TEV-protease

Product name:	TEV-protease
Purification tag:	(his ₆ -Strep)N
Reference sequences:	NC001555 NP_062908 NP_734212
Source:	Recombinant from <i>E. coli</i>
Purification:	2-Step affinity and SEC
Formulation:	PBS, 1 mM DTT, 50 % glycerol, sterile
Storage:	< -20 °C

Available Product Sizes

Catalog number	Size
T004 – 1.0 mg	1.0 mg
Bulk	On request

Description

The Tobacco etch virus (TEV) protease is one of the most popular proteases used to remove affinity tags from a recombinant protein. The TEV-protease recognition site is 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.

Use, Storage and stability

Recombinant TEV protease should be stored at -20 °C (expiration date 3 years post manufacturing). The enzyme is stored in PBS, 1 mM DTT, 50 % glycerol at a concentration of > 0.5 mg/ml. After thawing it should be stored in appropriate small aliquots at -20 °C (stable for at least 1 year). The enzyme is active in a wide range of buffers.

Protocol

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

TEV protease	0.02 mg/ml working concentration
Substrate (10 – 100 kDa)	1 – 5 mg/ml
Incubation temperature	Ambient
Incubation time	1 hour ¹ – over night ¹
Digestion buffer	PBS / TBS
Post digestion	The protease can be removed from the digestion reaction mixture by affinity purification via IMAC or Strep-tactin purification

¹ Digestion should be performed with gentle mixing

Precaution

1. For professional use only.
2. There might be a reduced pressure in the vial. Before opening the vial, equilibrate at 4 °C or ambient temperature. Briefly spin to settle the contents at the bottom of the vial and careful open the vial.
3. As with any product derived from biological sources, proper handling procedures should be used.
4. The product can be used in various applications and settings. The user should evaluate the fitness-of-use.

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

The product is not for use in humans.

The product can only be used for internal research and development.

The product cannot be used in any commercial activity (commercial use includes, but is not limited to, 1) preparation of growth media with the purpose of sale, 2) R&D activities for third parties). The product cannot be resold.

Please contact bd@immunoprecise.com to inquire about further information.

ImmunoPrecise Antibodies' products contain chemicals which may be harmful if misused. Due care should be exercised with all ImmunoPrecise products to prevent direct human contact. All products are intended **For Research Use Only** and **ARE NOT ALLOWED FOR USE IN HUMANS**. Each product is shipped with documentation stating specifications and other technical information. ImmunoPrecise products are warranted to meet or exceed the stated specifications. ImmunoPrecise' sole obligation and the customer's sole remedy is limited to replacement of products free of charge in the event products fail to perform as warranted. ImmunoPrecise makes no other warranty and SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES OF ANY KIND OR NATURE WHATSOEVER, DIRECTLY OR INDIRECTLY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, AS TO THE SUITABILITY, PRODUCTIVITY, DURABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE, MERCHANTABILITY, CONDITION, OR ANY OTHER MATTER WITH RESPECT TO IMMUNOPRECISE PRODUCTS. In no event shall ImmunoPrecise be liable for claims for any other damages, whether direct, incidental, foreseeable, consequential, or special (including but not limited to loss of use, revenue or profit), whether based upon warranty, contract, tort (including negligence) or strict liability arising in connection with the sale or the failure of ImmunoPrecise Antibodies products to perform in accordance with the stated specifications.