

Product datasheet

# Recombinant human TNF Receptor I protein (Fc Chimera) ab83577

2 Images

Overview

<b>Product name</b>	Recombinant human TNF Receptor I protein (Fc Chimera)
<b>Protein length</b>	Protein fragment

Description

<b>Nature</b>	Recombinant
<b>Source</b>	HEK 293 cells

Amino Acid Sequence

<b>Accession</b>	<a href="#">P19438</a>
<b>Species</b>	Human
<b>Sequence</b>	<p>Theoretical Sequence:</p> <p>YPSGVIGLVPHLGDREKRDSVCPQGKYIHPQNNsicCT            KCHKGTLY            NDCPGPGQDTCRECESGSFTASENHLRHCLSCSKCRKE            MGQVEISSC            TVDRDTVCGCRKNQYRHYWSENLFQCFNCSLCLNGTVHL            SCQEKQNTV            CTCHAGFFLRENECVSCSNCKKSLECTKLCLPQIENVKG            TEDSGIPKV            DKKVEPKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDT            LMISRTPEV            TCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS            TYRVVSVLT            VLHQDWLNGKEYKCRVSNKALPAPIEKTISKAKGQPREP            QVYTLPPSR            DELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT            PPVLDSDGS            FFLYSKLTVDKSRWQQGNVFSVSMHEALHNHYTQKSLS            LSPGK</p>

<b>Amino acids</b>	22 to 209
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<b>Additional sequence information</b>	Fusion of aa 1-209 of human TNF Receptor 1 and aa 93-330 of Fc region of human IgG1 (P01857). The chimeric protein was expressed in modified human 293 cells.
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## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab83577** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Biological activity** Activity: The ND<sub>50</sub> of ab83577 is typically 15-30 ng/ml as measured by its ability to neutralize TNF- $\alpha$  mediated cytotoxicity in murine WEHI 164 cells in the presence of actinomycin D.

**Applications** Functional Studies

SDS-PAGE

**Purity** > 95 % SDS-PAGE.

**Form** Lyophilised

## Preparation and Storage

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**Stability and Storage** Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 10% Trehalose, 1% Human serum albumin

This product is an active protein and may elicit a biological response in vivo, handle with caution.

**Reconstitution** It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

## General Info

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**Function** Receptor for TNFSF2/TNF- $\alpha$  and homotrimeric TNFSF1/lymphotoxin- $\alpha$ . The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. Contributes to the induction of non-cytocidal TNF effects including anti-viral state and activation of the acid sphingomyelinase.

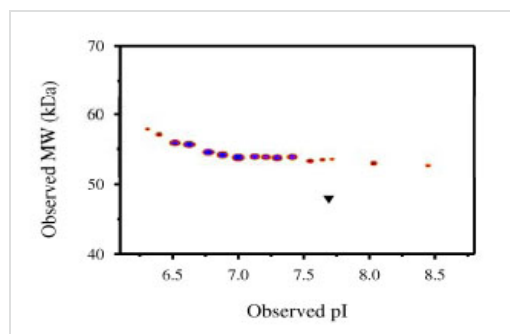
**Involvement in disease** Familial hibernian fever  
Multiple sclerosis 5

**Sequence similarities** Contains 1 death domain.  
Contains 4 TNFR-Cys repeats.

**Domain** The domain that induces A-SMASE is probably identical to the death domain. The N-SMASE activation domain (NSD) is both necessary and sufficient for activation of N-SMASE. Both the cytoplasmic membrane-proximal region and the C-terminal region containing the death domain are involved in the interaction with TRPC4AP.

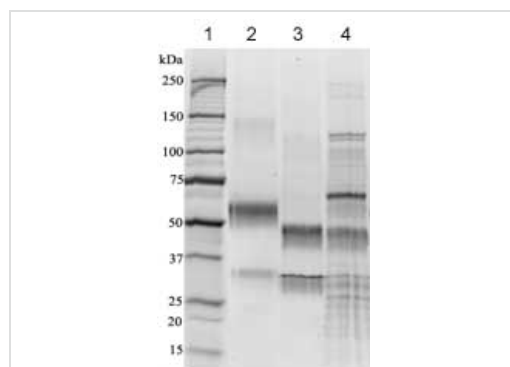
**Post-translational modifications** The soluble form is produced from the membrane form by proteolytic processing.

**Cellular localization** Cell membrane. Golgi apparatus membrane. Secreted. A secreted form is produced through proteolytic processing and Secreted. Lacks a Golgi-retention motif, is not membrane bound and therefore is secreted.



Functional Studies - TNF Receptor I protein (Fc Chimera Active) (ab83577)

Densitometry scan demonstrating the purified human cell expressed protein exists in multiple isoforms, which differ according to their level of post-translational modification. The triangle indicates the theoretical MW and pI of the protein.



SDS-PAGE - TNF Receptor I protein (Fc Chimera Active) (ab83577)

1D SDS-PAGE of ab83577 before and after treatment with glycosidases to remove oligosaccharides.

Lane 1 – MW markers; Lane 2 – ab83577 ; Lane 3 – ab83577 treated with PNGase F to remove potential N-linked glycans; Lane 4 – ab83577 treated with a glycosidase cocktail to remove potential N- and O-linked glycans. 10 µg protein loaded per lane.

Drop in MW after treatment with PNGase F indicates presence of N-linked glycans. Slight drop in MW after treatment with glycosidase cocktail suggests presence of O-linked glycans. Additional bands in lane 3 and lane 4 are glycosidase enzymes.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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