

Product datasheet

Recombinant human TNF Receptor I protein (Fc Chimera) ab83577

2 Images

Overview

Product name	Recombinant human TNF Receptor I protein (Fc Chimera)
Protein length	Protein fragment

Description

Nature	Recombinant
Source	HEK 293 cells

Amino Acid Sequence

Accession	P19438
Species	Human
Sequence	<p>Theoretical Sequence:</p> <p>YPSGVIGLVPHLGDREKRDSVCPQGKYIHPQNNsicCT KCHKGTLY NDCPGPGQDTCRECESGSFTASENHLRHCLSCSKCRKE MGQVEISSC TVDRDTVCGCRKNQYRHYWSENLFQCFNCSLCLNGTVHL SCQEKQNTV CTCHAGFFLRENECVSCSNCKKSLECTKLCLPQIENVKG TEDSGIPKV DKKVEPKSCDKTHTCPPCPAPPELLGGPSVFLFPPKPKDT LMISRTPEV TCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS TYRVVSVLT VLHQDWLNGKEYKCRVSNKALPAPIEKTISKAKGQPREP QVYTLPPSR DELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT PPVLDSDGS FFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLS LSPGK</p>

Amino acids	22 to 209
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Additional sequence information	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

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 ND₅₀ of ab83577 is typically 15-30 ng/ml as measured by its ability to neutralize TNF- α 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

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

Function Receptor for TNFSF2/TNF- α and homotrimeric TNFSF1/lymphotoxin- α . 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.

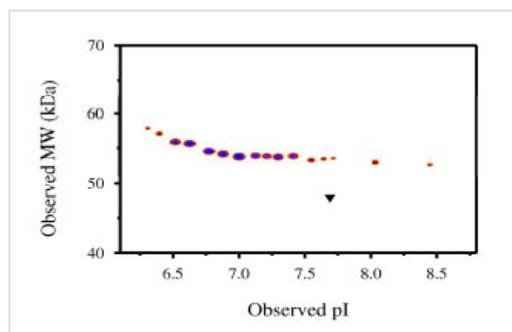
Involvement in disease Familial hibernian fever
Multiple sclerosis 5

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.

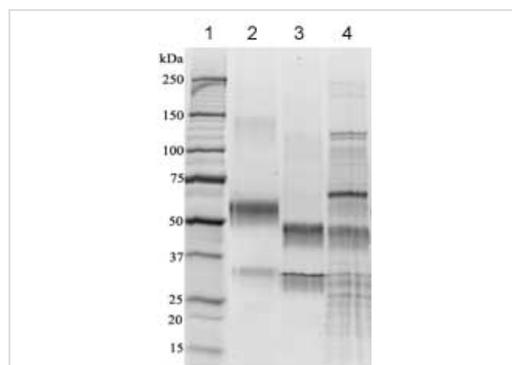
Post-translational modifications The soluble form is produced from the membrane form by proteolytic processing.

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.

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