abcam

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	Theoretical Sequence: IYPSGVIGLVPHLGDREKRDSVCPQGKYIHPQNNSICCT KCHKGTYLY NDCPGPGQDTDCRECESGSFTASENHLRHCLSCSKCRKE MGQVEISSC TVDRDTVCGCRKNQYRHYWSENLFQCFNCSLCLNGTVHL SCQEKQNTV CTCHAGFFLRENECVSCSNCKKSLECTKLCLPQIENVKG TEDSGIPKV DKKVEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDT LMISRTPEV TCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNS TYRVVSVLT VLHQDWLNGKEYKCRVSNKALPAPIEKTISKAKGQPREP QVYTLPPSR DELTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTT PPVLDSDGS FFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLS LSPGK
Amino acids	22 to 209
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.

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 ND_{50} of ab83577 is typically 15-30 ng/ml as measured by its ability to neutralize TNF-a mediated cytoxicity in murine WEHI 164 cells in the presence of actinomycin D.
Applications	Functional Studies SDS-PAGE
Purity	> 95 % SDS-PAGE.
Form	Lyophilised

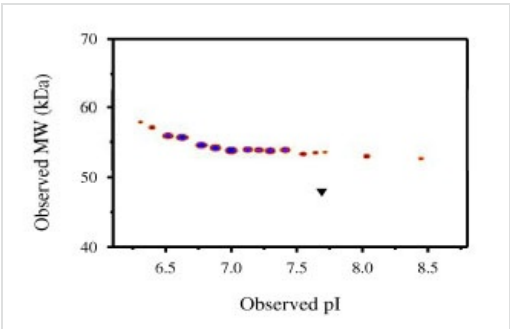
Preparation and Storage

Stability and Storage	Shipped at 4°C. After reconstitution store at -20ºC. 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

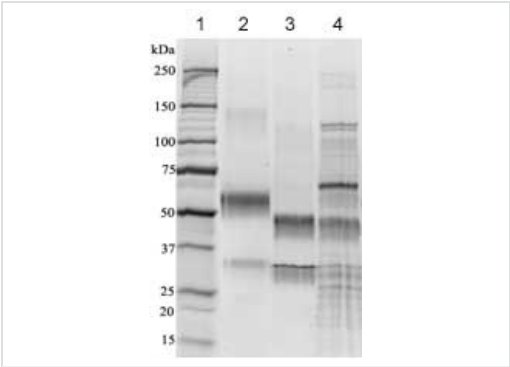
Function	Receptor for TNFSF2/TNF-alpha and homotrimeric TNFSF1/lymphotoxin-alpha. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (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.

Recombinant human TNF Receptor I protein (Fc Chimera) images



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.

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit http://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors