

TNFRSF1A active protein

TNFRSF1A Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257940

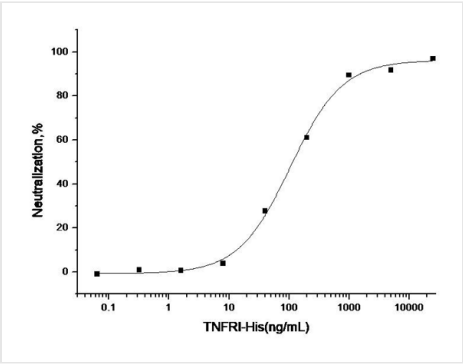
HOST
HEK293 Cells

PRODUCT SYNONYMS

TNFRSF1A; TNFRSF1A Protein; Human; Recombinant (His Tag); Human TNFR1/CD120a/TNFRSF1A Protein (His Tag); CD120a Protein; FPF Protein; MS5 Protein; p55 Protein; p55-R Protein; p60 Protein; TBP1 Protein; TNF-R Protein; TNF-R-I Protein; TNF-R55 Protein; TNFAR Protein; TNFR1 Protein; TNFR1-d2 Protein; TNFR55 Protein; TNFR60 Protein; tumor necrosis factor receptor superfamily member 1A; TNFRSF1A active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>92% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Thr21 1
Species	Human
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized human TNFRI-His at 10ug/mL (100uL/well) can bind biotinylated human TNFalpha. The EC50 of biotinylated human TNFalpha is 5-12ug/mL. 2. Measured by its ability to inhibit TNFalpha-mediated cytotoxicity in L929 mouse fibrosarcoma cells in the presence of metabolic inhibitor actinomycin D. The ED50 for this effect is typically 0.2-1ug/mL in the presence of 0.25ng/mL recombinant human TNFalpha.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ile 22
Tag	C-His
Protein Construction	A DNA sequence encoding the human TNFRI (NP_001056.1) extracellular domain (Met 1-Thr 211) was fused with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its ability to inhibit TNFalpha-mediated cytotoxicity in L929 mouse fibrosarcoma cells in the presence of metabolic inhibitor actinomycin D. The ED50 for this effect is typically 0.2-1ug/mL in the presence of 0.25 ng/mL recombinant human TNFAlpha.

ADDITIONAL INFORMATION

Related Product Information for TNFRSF1A active protein	Background: The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. CD120a (cluste of differentiation 120a), also known as TNFR1/TNFRSF1A, is a member of CD family, tumor necrosis factor receptor superfamily. CD120a is one of the most primary receptors for the tumor necrosis factor-alpha. It has been shown to be localized to both plasma membrane lipid rafts and the trans golgi complex with the help of the death domain (DD). CD120a can activate the transcription factor NF-kappaB, mediate apoptosis, and regulate inflammation processes.
Product Categories/Family for TNFRSF1A active protein	Neuroinflammation; Death Receptor Signaling
References	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12.Cottin V, et al. (2002) Restricted localization of the TNF receptor CD120a to lipid rafts: a novel role for the death domain. The journal of immunology. 168: 4095-102.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507575
NCBI GeneID	7132
NCBI Accession #	NP_001056.1
NCBI GenBank Nucleotide #	NM_001065.3
UniProt Accession #	P19438; Q9UCA4; A8K4X3; B2RDE4; B3KPQ1; B4DQB7; B4E309; D3DUR1
Molecular Weight	50,495 Da
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 1A
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily, member 1A
NCBI Official Symbol	TNFRSF1A
NCBI Official Synonym Symbols	FPF; MS5; p55; p60; TBP1; TNF-R; TNFAR; TNFR1; p55-R; CD120a; TNFR55; TNFR60; TNF-R-I; TNF-R55; TNFR1-d2

NCBI Protein Information	tumor necrosis factor receptor superfamily member 1A; TNF-R1; TNF-RI; TNFR-I; tumor necrosis factor-alpha receptor; tumor necrosis factor receptor type 1; tumor necrosis factor binding protein 1; tumor necrosis factor receptor 1A isoform beta
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 1A
UniProt Gene Name	TNFRSF1A
UniProt Synonym Gene Names	TNFAR; TNFR1; TNF-R1; TNF-RI; TNFR-I; TBPI
UniProt Entry Name	TNR1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/tnfrsf1a/257940>