

TNFR2/TNFRSF1B Active Protein | TNFRSF1B active protein

TNFR2/TNFRSF1B Protein, Human, Recombinant (aa 1-268, 196 Met/Arg, His Tag)

CATALOG #
AAA257881

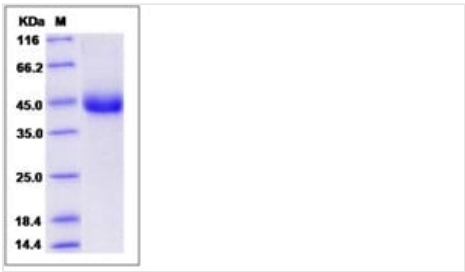
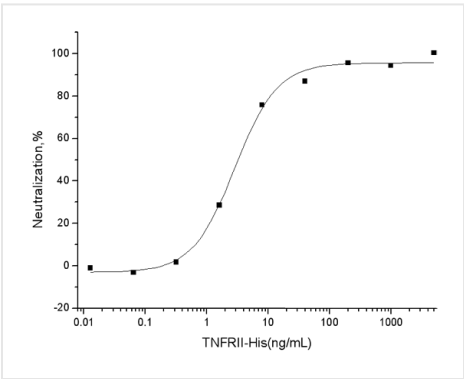
HOST
HEK293 Cells

PRODUCT SYNONYMS

TNFR2/TNFRSF1B; TNFR2/TNFRSF1B Protein; Human; Recombinant (aa 1-268; 196 Met/Arg; His Tag); Human TNFR2/CD120b/TNFRSF1B Protein (aa 1-268; CD120b Protein; p75 Protein; p75TNFR Protein; TBPII Protein; TNF-R-II Protein; TNF-R75 Protein; TNFBR Protein; TNFR1B Protein; TNFR2 Protein; TNFR80 Protein; tumor necrosis factor receptor superfamily; member 1b; TNFRSF1B active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% 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-Arg26 8
Species	Human
Activity	Measured by its ability to inhibit TNF-alpha mediated cytotoxicity in L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 5-40ng/mL in the presence of 1ng/mL recombinant human TNF-alpha.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Leu 23
Tag	C-His
Protein Construction	A DNA sequence encoding the human TNFRSF1B (EAW71731.1)(Met1-Arg268, natural variant 196 Met/Arg) was expressed with a C-terminal polyhistidine tag.
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 TNF-alpha mediated cytotoxicity in L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 5-40 ng/mL in the presence of 1 ng/mL recombinant human TNF-alpha.

ADDITIONAL INFORMATION

Related Product Information for TNFRSF1B active protein	Background: Tumor necrosis factor receptor superfamily, member 1B (TNFRSF1B), also known as Tumor necrosis factor receptor 2 (TNFR2) or CD120b antigen, is a member of the tumor necrosis factor receptor superfamily. TNFR2/CD120b/TNFRSF1B is a member of the TNF-receptor superfamily. This protein and TNF-receptor 1 form a heterocomplex that mediates the recruitment of two anti-apoptotic proteins, c-IAP1 and c-IAP2, which possess E3 ubiquitin ligase activity. Knockout studies in mice also suggest a role of this protein in protecting neurons from apoptosis by stimulating antioxidative pathways. TNFR2/CD120b/TNFRSF1B is not a major contributing factor to the genetic risk of type 2 diabetes, its associated peripheral neuropathy and hypertension and related metabolic traits in North Indians. Tumor necrosis factor receptor superfamily, member 1B (TNFRSF1B) has been reported to be associated with SLE risk in Japanese populations. TNFR2/CD120b/TNFRSF1B serves as a receptor with high affinity for TNFSF2 and approximately 5-fold lower affinity for homotrimeric TNFSF1. This receptor mediates most of the metabolic effects of TNF-alpha. Isoform 2 blocks TNF-alpha-induced apoptosis, which suggests that it regulates TNF-alpha function by antagonizing its biological activity.
Product Categories/Family for TNFRSF1B active protein	Neuroinflammation
References	Komata T, et al. (1999) Association of tumor necrosis factor receptor 2 (TNFR2) polymorphism with susceptibility to systemic lupus erythematosus. Tissue Antigens. 53(6): 527-33. Tsuchiya N, et al. (2001) Analysis of the association of HLA-DRB1, TNFalpha promoter and TNFR2 (TNFRSF1B) polymorphisms with SLE using transmission disequilibrium test. Genes Immun. 2(6): 317-22. Guo G, et al. (1999) Role of TNFR1 and TNFR2 receptors in tubulointerstitial fibrosis of obstructive nephropathy. Am J Physiol. 277(5): 766-72.

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant human TNFRSF1B comprises 257 amino acids and has a predicted molecular mass of 27.7kDa. The apparent molecular mass of the protein is approximately 43kDa in SDS-PAGE under reducing conditions due to glycosylation.
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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.