

TMED1 active protein

TMED1 Protein, Human, Recombinant (His Tag)

CATALOG #
AAA258020

HOST
HEK293 Cells

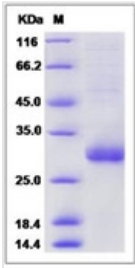
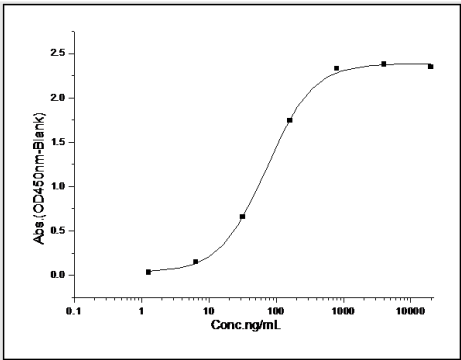
PRODUCT SYNONYMS

TMED1; TMED1 Protein; Human; Recombinant (His Tag); Human TMED1 Protein (His Tag); IL1rl1 Protein; IL1RL1LG Protein; Tp24 Protein; transmembrane emp24 protein transport domain containing 1; TMED1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% 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-Asn19 4
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ala 24
Tag	C-His
Protein Construction	A DNA sequence encoding the human TMED1 (Q13445)(Met1-Asn194) was expressed 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.
Activity	1.Measured by its binding ability in a functional ELISA.2.Immobilized human TMED1-His at 10ug/mL (100uL/well) can bind human IL1R4-Fc. The EC50 of human IL1R4-Fc is 8-50ng/mL.
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.

IMAGES



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human TMED1-His at 10 ug/mL (100 uL/well) can bind human IL1R4-Fc, the EC50 of human IL1R4-Fc is 8-50 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for TMED1 active protein	Background: TMED1 belongs to the EMP24/GP25L family. It contains 1 GOLD domain and is widely expressed. TMED1 binds to its receptor IL1RL1 and results in the activation of DNA binding by nuclear factor NF-kappa-B or transcription from the IL8 promoter and most likely requires other proteins to elicit these activities. Dendritic cells from Peyer's patches (but not from spleen) express TMED1 in response to treatment with LPS. TMED1 may play a role in vesicular protein trafficking, mainly in the early secretory pathway. It may act as a cargo receptor at the luminal side for incorporation of secretory cargo molecules into transport vesicles and may be involved in vesicle coat formation at the cytoplasmic side.
References	Colland F, et al. (2004) Functional Proteomics Mapping of a Human Signaling Pathway. Genome Res. 14(7):1324-32.Gerhard DS, et al. (2005) Towards a proteome-scale map of the human protein-protein interaction network. Nature. 437(7062):1173-8.Gerhard DS, et al. (2004) The Status, Quality, and Expansion of the NIH Full-Length cDNA Project: The Mammalian Gene Collection (MGC). Genome Res. 14(10B):2121-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5803040
NCBI GeneID	11018
NCBI Accession #	NP_006849.1
NCBI GenBank Nucleotide #	NM_006858.3
UniProt Accession #	Q13445
Molecular Weight	25,206 Da
NCBI Official Full Name	transmembrane emp24 domain-containing protein 1
NCBI Official Synonym Full Names	transmembrane emp24 protein transport domain containing 1
NCBI Official Symbol	TMED1
NCBI Official Synonym Symbols	Tp24; IL1rl1l; IL1RL1LG
NCBI Protein Information	transmembrane emp24 domain-containing protein 1; IL1RL1-binding protein; p24 family protein gamma-1; interleukin 1 receptor-like 1 ligand; putative T1/ST2 receptor-binding protein
UniProt Protein Name	Transmembrane emp24 domain-containing protein 1
UniProt Gene Name	TMED1
UniProt Synonym Gene Names	IL1RL1L; IL1RL1LG; Tp24; p24gamma1
UniProt Entry Name	TMED1_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/tmed1/258020>