

Recombinant Human TMED1 Protein (Fc Tag)

Catalog No. PKSH030661

Note: Centrifuge before opening to ensure complete recovery of vial contents.

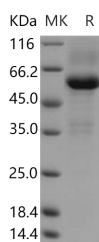
Description

Synonyms	II1rl1l;IL1RL1LG;Tp24
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Asn194
Accession	Q13445
Calculated Molecular Weight	46.2 kDa
Observed molecular weight	57 kDa
Tag	C-hFc
Bioactivity	Immobilized mouse ST2-His at 10µg/mL (100µL/well) can bind human TMED1-Fc, the EC50 of human TMED1-Fc is 0.05-0.2µg/mL.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 90 % as determined by reducing SDS-PAGE.

Background

TMED1 belongs to the EMP24/GP25L family. It contains 1 GOLD domain and is widely expressed. TMED1 binds to its

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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.