

Recombinant Mouse TMED1 Protein, Fc-tagged

Cat. No. TMED1-543M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse TMED1 (NP_034874.2) (Met1-Asn194) was expressed with the Fc region of human IgG1 at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Asn194
Description	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.
Predicted N Terminal	Gly 25
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant mouse TMED1 consists of 408 amino acids and predicts a

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	molecular mass of 46 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 85 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Tmed1 transmembrane emp24 domain containing 1 [Mus musculus]
Official Symbol	TMED1
Synonyms	TMED1; transmembrane emp24 domain containing 1; transmembrane emp24 domain-containing protein 1; p24gamma1; p24 family protein gamma-1; lymphocyte antigen 84 ligand; interleukin 1 receptor-like 1 ligand; interleukin-1 receptor-like 1 ligand; putative T1/ST2 receptor-binding protein; St2l; Ly84l; Il1rl1l;
Gene ID	17083
mRNA Refseq	NM_010744
Protein Refseq	NP_034874

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