

Human TMED1 Protein (Fc Tag)

Catalog Number: 13302-H02H



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Biological Solution Specialist

General Information

Gene Name Synonym:

IL1RL1; IL1RL1LG; Tp24; IL1RL1; Ly84l; St2l

Protein Construction:

A DNA sequence encoding the human TMED1 (Q13445) (Met1-Asn194) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 24

Molecular Mass:

The recombinant human TMED1 /Fc is a disulfide-linked homodimer. The reduced monomer comprises 412 amino acids and has a predicted molecular mass of 46.2 kDa. The apparent molecular mass of the protein is approximately 57 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

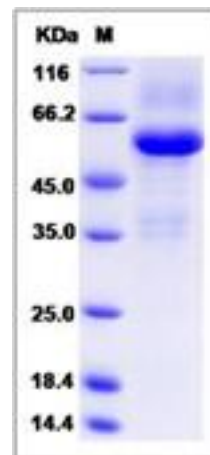
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein 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.

References

- 1.Colland F, *et al.* (2004) Functional Proteomics Mapping of a Human Signaling Pathway. *Genome Res.* 14(7):1324-32.
- 2.Gerhard DS, *et al.* (2005) Towards a proteome-scale map of the human protein-protein interaction network. *Nature.* 437(7062):1173-8.
- 3.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.

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