

## Recombinant Human TMED4, Fc-tagged

Cat. No. TMED4-181H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human TMED4 /ERS25 Protein, With C-Fc Tag (rh TMED4 / ERS25 Fc Chimera) Leu 30 - Arg 194 (Accession # AAH57851) was produced in human 293 cells (HEK293).

**Species** Human

**Source** HEK293

**ProteinLength** 30-194 a.a.

**Description** Transmembrane emp24 domain-containing protein 4 ( TMED4) is also known as Endoplasmic reticulum stress-response protein 25 (ERS25), GMP25iso, p24 family protein alpha-3 (p24alpha3), which belongs to the EMP24/GP25L family. TMED4 is involved in vesicular protein trafficking, mainly in the early secretory pathway. TMED4 appears to play a role in the biosynthesis of secreted cargo including processing. TMED4 is also involved in endoplasmic reticulum stress response, and may play a role in the regulation of heat-shock response and apoptosis.

**Form** Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM tris, 100 mM glycine, pH7.5. Normally Mannitol or Trehalose are added as protectants before lyophilization.

**Molecular Mass** rh TMED4 / ERS25 Fc Chimera is fused with a human IgG1 Fc tag at the C-terminus, and has a calculated MW of 45.9 kDa. The predicted N-terminus is Leu 30. DTT-reduced Protein migrates as 48 kDa in SDS-PAGE due to glycosylation.

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<b>Endotoxin</b>	Less than 1.0 EU per µg of the rh TMED4 / ERS25 Fc Chimera by the LAL method.
<b>Purity</b>	>92% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC).
<b>Reconstitution</b>	See Certificate of Analysis for reconstitution instructions and specific concentrations.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">TMED4 transmembrane emp24 protein transport domain containing 4 [ Homo sapiens ]</a>
<b>Official Symbol</b>	TMED4
<b>Synonyms</b>	TMED4; transmembrane emp24 protein transport domain containing 4; transmembrane emp24 domain-containing protein 4; HNLF; GMP25iso; p24alpha3; p24 family protein alpha-3; putative NFkB activating protein HNLF; putative NF-kappa-B-activating protein 156; endoplasmic reticulum stress-response protein 25 kDa; ERS25;
<b>Gene ID</b>	<a href="#">222068</a>
<b>mRNA Refseq</b>	<a href="#">NM_182547</a>
<b>Protein Refseq</b>	<a href="#">NP_872353</a>
<b>MIM</b>	<a href="#">612038</a>

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<b>UniProt ID</b>	Q7Z7H5
<b>Chromosome Location</b>	7p13
<b>Function</b>	signal transducer activity;

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