

## TMED4 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P77242
<b>Synonyms:</b>	Transmembrane emp24 domain-containing protein 4; ERS25; GMP25iso; p24alpha3
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q7Z7H5 (L30-R194)
<b>Gene ID:</b>	222068
<b>Molecular Weight:</b>	Approximately 23-24 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           L Y F H I G E T E K    R C F I E E I P D E    T M V I G N Y R T Q    M W D K Q K E V F L            P S T P G L G M H V    E V K D P D G K V V    L S R Q Y G S E G R    F T F T S H T P G D            H Q I C L H S N S T    R M A L F A G G K L    R V H L D I Q V G E    H A N N Y P E I A A            K D K L T E L Q L R    A R Q L L D Q V E Q    I Q K E Q D Y Q R Y    R E E R F R L T S E            S T N Q R         </p>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA .Immobilized Human TMED4 at 2 µg/mL (100 µL/well) can bind Anti-TMED4 antibody, The ED <sub>50</sub> for this effect is 5.903 ng/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	TMED4 Protein is intricately involved in vesicular protein trafficking, particularly within the early secretory pathway, contributing to the targeting and maintenance of the Golgi apparatus. Its role extends to the biosynthesis of secreted cargo, with a specific focus on processing. Furthermore, TMED4 demonstrates involvement in the endoplasmic reticulum stress response, showcasing its significance in cellular homeostasis under stress conditions. Additionally, there is potential for
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TMED4 to play a role in the regulation of the heat-shock response and apoptosis, suggesting its multifaceted contributions to cellular processes beyond vesicular trafficking.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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