# Recombinant Human TMED1 Protein (His Tag)

**Catalog Number: PKSH030660**

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

## Description

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|---|---|
| **Species** | Human |
| **Source** | HEK293 Cells-derived Human TMED1 protein Met 1-Asn194, with an C-terminal His |
| **Calculated MW** | 20.6 kDa |
| **Observed MW** | 28 kDa |
| **Accession** | Q13445 |
| **Bio-activity** | Measured by its binding ability in a functional ELISA. 2. Immobilized human TMED1-His at 10μg/mL (100μL/well) can bind human IL1R4-Fc, the $EC_{50}$ of human IL1R4-Fc is 8-50ng/mL. |

## Properties

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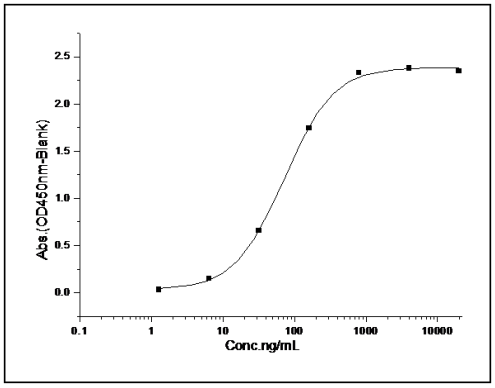
|---|---|
| **Purity** | > 90 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored 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<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




Measured by its binding ability in a functional ELISA. Immobilized human TMED1-His (Cat: PKSH030660) at 10 μg/mL (100 μL/well) can bind human IL1R4-Fc (Cat: PKSH031875), the $EC_{50}$ of human IL1R4-Fc is 8-50 ng/mL.

## Background

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 traffickin g; mainly in the early secretory pathway. It may act as a cargo receptor at the lumenal side for incorporation of secretory cargo molecules into transport vesicles and may be involved in vesicle coat formation at the cytoplasmic side.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