

## TMEM65 Protein, Human (Cell-Free, His, SUMO)

Cat. No.:	HY-P702473
Synonyms:	Transmembrane protein 65
Species:	Human
Source:	E. coli Cell-free
Accession:	Q6PI78 (M63-S240)
Gene ID:	157378
Molecular Weight:	35.1 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           M E A L N T A Q G A    R D F I Y S L H S T    E R S C L L K E L H    R F E S I A I A Q E            K L E A P P P T P G    Q L R Y V F I H N A    I P F I G F G F L D    N A I M I V A G T H            I E M S I G I I L G    I S T M A A A A L G    N L V S D L A G L G    L A G Y V E A L A S            R L G L S I P D L T    P K Q V D M W Q T R    L S T H L G K A V G    V T I G C I L G M F            P L I F F G G G E E    D E K L E T K S         </p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
<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 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
<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>	<p>           TMEM65 Protein emerges as a potentially crucial player in cardiac development and function, with implications in the regulation of cardiac conduction and the function of the gap junction protein GJA1. By contributing to the stability and proper localization of GJA1 to the cardiac intercalated disk, TMEM65 may play a pivotal role in regulating gap junction communication. Additionally, there are indications that TMEM65 could be involved in the regulation of mitochondrial respiration and maintenance of mitochondrial DNA copy number. Existing as both a monomer and a homodimer, TMEM65 interacts with GJA1 and weakly with DSP, suggesting its multifaceted involvement in cellular processes critical for cardiac         </p>
-------------------	---

---

and mitochondrial function. Further investigations are essential to elucidate the intricate molecular pathways through which TMEM65 exerts its diverse functions.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA