

## TXNDC5 Protein, Human (GST)

<b>Cat. No.:</b>	HY-P71609
<b>Synonyms:</b>	EndoPDI; Endoplasmic reticulum protein ERp46; Endoplasmic reticulum resident protein 46; Endothelial protein disulphide isomerase; ER protein 46; ERp46; Hcc 2; MGC3178; PDIA15; TLP46; TXND5_HUMAN; TXNDC 5; Txndc5
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q8NBS9 (1M-324L)
<b>Gene ID:</b>	81567
<b>Molecular Weight:</b>	Approximately 63.2 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> M E D A K V Y V A K   V D C T A H S D V C   S A Q G V R G Y P T   L K L F K P G Q E A V K Y Q G P R D F Q   T L E N W M L Q T L   N E E P V T P E P E   V E P P S A P E L K Q G L Y E L S A S N   F E L H V A Q G D H   F I K F F A P W C G   H C K A L A P T W E Q L A L G L E H S E   T V K I G K V D C T   Q H Y E L C S G N Q   V R G Y P T L L W F R D G K K V D Q Y K   G K R D L E S L R E   Y V E S Q L Q R T E   T G A T E T V T P S E A P V L A A E P E   A D K G T V L A L T   E N N F D D T I A E   G I T F I K F Y A P W C G H C K T L A P   T W E E L S K K E F   P G L A G V K I A E   V D C T A E R N I C S K Y S V R G Y P T   L L L F R G G K K V   S E H S G G R D L D   S L H R F V L S Q A K D E L </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
<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.
<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>	TXNDC5, a protein disulfide isomerase situated within the endoplasmic reticulum lumen, plays a pivotal role in facilitating the formation of disulfide bonds crucial for protein stability and function. Notably, it exhibits the ability to reduce disulfide bonds in insulin, underscoring its significance in the intricate processes of protein folding and maturation. The functional attributes of TXNDC5 emphasize its role as a key player in maintaining the structural integrity of proteins within the
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endoplasmic reticulum, thereby contributing to cellular homeostasis.

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

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