

TPBG/5T4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70121
Synonyms:	rMuTrophoblast glycoprotein/5T4, His; TPBG; 5T4 Protein, Human; 5T4AG Protein, Human; M6P1 Protein, Human; WAIF1 Protein, Human
Species:	Mouse
Source:	HEK293
Accession:	Q9Z0L0 (S32-S361)
Gene ID:	21983
Molecular Weight:	50-70 kDa

PROPERTIES

AA Sequence	<p>S A P S S S V P S S S T S P A A F L A S G S A Q P P P A E R C P A A C E C S E A</p> <p>A R T V K C V N R N L L E V P A D L P P Y V R N L F L T G N Q M T V L P A G A F</p> <p>A R Q P P L A D L E A L N L S G N H L K E V C A G A F E H L P G L R R L D L S H</p> <p>N P L T N L S A F A F A G S N A S V S A P S P L E E L I L N H I V P P E D Q R Q</p> <p>N G S F E G M V A F E G M V A A A L R S G L A L R G L T R L E L A S N H F L F L</p> <p>P R D L L A Q L P S L R Y L D L R N N S L V S L T Y A S F R N L T H L E S L H L</p> <p>E D N A L K V L H N S T L A E W H G L A H V K V F L D N N P W V C D C Y M A D M</p> <p>V A W L K E T E V V P D K A R L T C A F P E K M R N R G L L D L N S S D L D C</p> <p>D A V L P Q S L Q T S</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The TPBG/5T4 protein appears to operate as an inhibitor of Wnt/beta-catenin signaling, potentially exerting its inhibitory effects by indirectly interacting with LRP6 and impeding Wnt3a-dependent LRP6 internalization. This suggests that TPBG/5T4 may play a critical role in modulating the intricate Wnt/beta-catenin signaling pathway, influencing cellular
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responses and functions associated with this pathway. A comprehensive investigation into the specific molecular mechanisms underlying the interaction between TPBG/5T4 and LRP6, as well as its impact on Wnt3a-dependent LRP6 internalization, could provide valuable insights into the functional significance of TPBG/5T4 in the regulation of Wnt/beta-catenin signaling and its potential implications for cellular processes.

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

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