

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

Cat. No.:	HY-P70071
Synonyms:	rCynTrophoblast glycoprotein/5T4, His; TPBG; 5T4 Protein, Human; 5T4AG Protein, Human; M6P1 Protein, Human; WAIF1 Protein, Human
Species:	Cynomolgus
Source:	HEK293
Accession:	Q4R8Y9 (T35-S355)
Gene ID:	102132149
Molecular Weight:	55-80 kDa

PROPERTIES

AA Sequence	<pre> T S S A S S S S S S A P F L A S A A S A Q P P L P D Q C P A L C E C S E A A R T V K C V N R N L T E V P T D L P L Y V R N L F L T G N Q L A V L P A G A F A R R P P L A E L A A L N L S G S R L D E V R G G A F E H L P S L R Q L D L S H N P L A Y L S P F A F S G S N A S I S A P S P L V E L I L N H I V P P D D K R Q N R S F E G M V A A A L V A G R A L Q G L H L L E L A S N H F L Y L P R D V L A Q L P S L R Y L D L S N N S L V S L T Y V S F R N L T H L E S L H L E D N A L K V L H N G T L A E L Q G L P H V R V F L D N N P W V C D C H M A D M V T W L K Q T G V V Q G K D R L T C A F P E K M R N R V L L E L N S A D L D C D P I L P P S L Q T S </pre>
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 emerges as a potential inhibitor of Wnt/beta-catenin signaling, operating through an indirect interaction with LRP6 and the blocking of Wnt3a-dependent LRP6 internalization. This distinctive mechanism suggests that TPBG/5T4 plays a crucial role in regulating the Wnt/beta-catenin pathway by disrupting the internalization process of LRP6,
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thereby influencing downstream signaling events. This insight into TPBG/5T4's function underscores its significance in modulating the intricate molecular dynamics associated with Wnt/beta-catenin signaling, offering a potential avenue for therapeutic exploration in the context of cellular regulatory processes.

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

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