

TPBG/5T4 Protein, Human (HEK293, Avi-His)

Cat. No.:	HY-P72421
Synonyms:	TPBG; 5T4; 5T4AG; M6P1; WAIF1
Species:	Human
Source:	HEK293
Accession:	Q13641 (S32-S355)
Gene ID:	7162
Molecular Weight:	60-90 kDa

PROPERTIES

AA Sequence

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S S P T S S A S S F   S S S A P F L A S A   V 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 A   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 A G A F E H L   P S L R Q L D L S H
N P L A D L S P F A   F S G S N A S V S A   P S P L V E L I L N   H I V P P E D E R Q
N R S F E G M V V A   A L L A G R A L Q G   L R R L E L A S N H   F L Y L P R D V L A
Q L P S L R H 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 I R V F L   D N N P W V C D C H   M A D M V T W L K E
T E V V Q G K D R L   T C A Y 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
  
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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 ddH₂O. 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 serve as an inhibitor of Wnt/beta-catenin signaling, potentially achieved through indirect interaction with LRP6, thereby impeding Wnt3a-dependent LRP6 internalization. This implies a crucial role for TPBG/5T4 in modulating the intricate Wnt/beta-catenin signaling pathway, exerting regulatory influence on cellular responses

associated with this pathway. Further exploration of the specific molecular mechanisms governing the interaction between TPBG/5T4 and LRP6, as well as its impact on Wnt3a-dependent LRP6 internalization, could yield valuable insights into the functional significance of TPBG/5T4 in shaping Wnt/beta-catenin signaling dynamics and its potential implications for various cellular processes.

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

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