

5T4/TPBG Protein, Human, Recombinant (mFc)

General Information

Synonyms:	TPBG;5T4 Protein;M6P1 Protein;5T4AG Protein;WAIF1 Protein
Protein Construction:	Ser32-Ser355
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q13641
Molecular Weight:	80-110 KDa (reducing condition)
AA Sequence:	Ser32-Ser355

QC Testing

Biological Activity:	1. Loaded Human TPBG Antibody (5G9) (Human IgG1) on Protein-A Biosensor, can bind Human TPBG (C-mFc) with an affinity constant of 8.75 nM as determined in BLI assay. (Regularly tested) 2. Immobilized Human TPBG (C-mFc) at 2µg/ml (100 µl/well) can bind Human TPBG Antibody (5G9) (Human IgG1) . The ED50 of Human TPBG Antibody (5G9) (Human IgG1) is 1.57 ng/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/µg (1 EU/µg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Trophoblast glycoprotein, also known as TPBG and 5T4, it belongs to the LRR family of proteins. The C-terminus of

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LRR N-terminal cap (LRRNT) and LRR 1 are essential for the inhibition of the Wnt signaling pathway. TPBG may function as an inhibitor of Wnt/beta-catenin signaling by indirectly interacting with LRP6 and blocking Wnt3a-dependent LRP6 internalization. It expressed by all types of trophoblasts as early as 9 weeks of development. In adult tissues, the expression is limited to a few epithelial cell types but is found on a variety of carcinoma.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481