

## 5T4/TPBG Protein, Human, Recombinant (aa 1-355, His)

### General Information

Synonyms:	trophoblast glycoprotein;WAIF1;5T4AG;M6P1;5T4
Protein Construction:	A DNA sequence encoding the Human TPBG (NP_006661.1) (Met1-Ser355) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Ser 32
Species:	Human
Expression Host:	HEK293 Cells
Accession:	NP_006661.1
Molecular Weight:	36.15 kDa (predicted); 62.88 kDa (reducing conditions)

### QC Testing

Biological Activity:	Immobilized Recombinant Human 5T4/TPBG Protein (His Tag) (Cat#TMPY-06317) at 1 µg/mL (100 µL/well) can bind anti-5T4/TPBG antibody, human IgG1, the EC50 is 1.0-3.0 ng/mL (QC tested).
Purity:	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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 (TPBG), also known as 5T4, is the therapeutic target of several anticancer agents currently in clinical development, largely due to its high expression in tumors and low expression in normal adult tissues.

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