

# Biotinylated Recombinant Human WAIF1/5T4/TPBG Protein

Catalog No.: RP02602B Recombinant

## **Sequence Information**

**Species Gene ID Swiss Prot** Human 7162 Q13641-1

**Tags** C-His&Avi

**Synonyms** 

M6P1; 5T4AG; WAIF1; TPBG; 5T4

## **Product Information**

Source Purification

HEK293 cells ≥ 95 % as determined by Tris-Bis PAGE;≥ 95 % as determined by

HPLC.

Calculated MW Observed MW

38.2 kDa 50-70 kDa

#### **Endotoxin**

< 1 EU/ $\mu g$  of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## **Contact**

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## **Background**

The oncofetal tumor-associated antigen 5T4 (TBGP) has been linked with CSC properties in several different malignancies. 5T4 has functional attributes that are relevant to the spread of tumors including through EMT, CXCR4/CXCL12, Wnt, and Hippo pathways which may all contribute through the mobilization of CSCs.

#### **Basic Information**

### **Description**

Biotinylated Recombinant Human WAIF1/5T4/TPBG Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Ser32-Ser355) of Human TPBG fused with a His and Avi tag at the C-terminal.

#### **Bio-Activity**

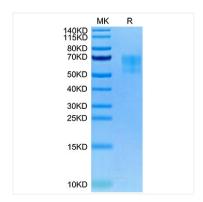
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

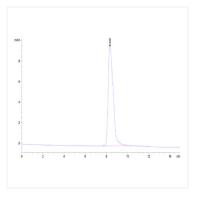
After reconstitution, the protein solution is stable at -20  $^{\circ}$ C for 3 months, at 2-8  $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

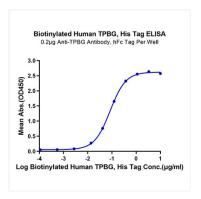
# **Validation Data**



Biotinylated Recombinant Human WAIF1/5T4/TPBG Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human TPBG is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-TPBG Antibody, hFc Tag at 2 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Human TPBG, His Tag with the EC<sub>50</sub> of 84.3ng/ml determined by ELISA.