

Human TPBG / 5T4 Protein, His Tag (MALS verified)

Catalog # TPG-H52H3



Synonyms

TPBG, 5T4, M6P1, 5T4AG, WAIF1, 5T4 oncofetal antigen, Trophoblast glycoprotein, 5T4 oncofetal trophoblast glycoprotein

Source

Human TPBG Protein, His Tag (TPG-H52H3) is expressed from human 293 cells (HEK293). It contains AA Ser 32 - Ser 355 (Accession # [Q13641-1](#)).

Predicted N-terminus: Ser 32

Molecular Characterization

TPBG(Ser 32 - Ser 355) Q13641-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 37.2 kDa. The protein migrates as 50-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

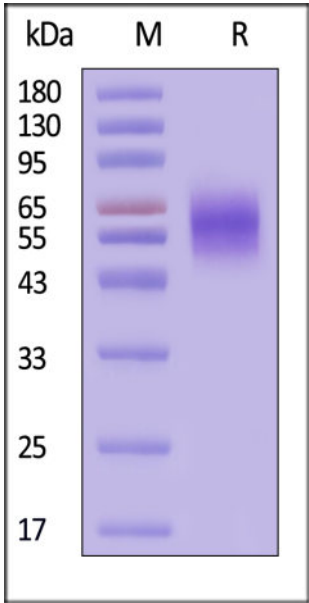
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

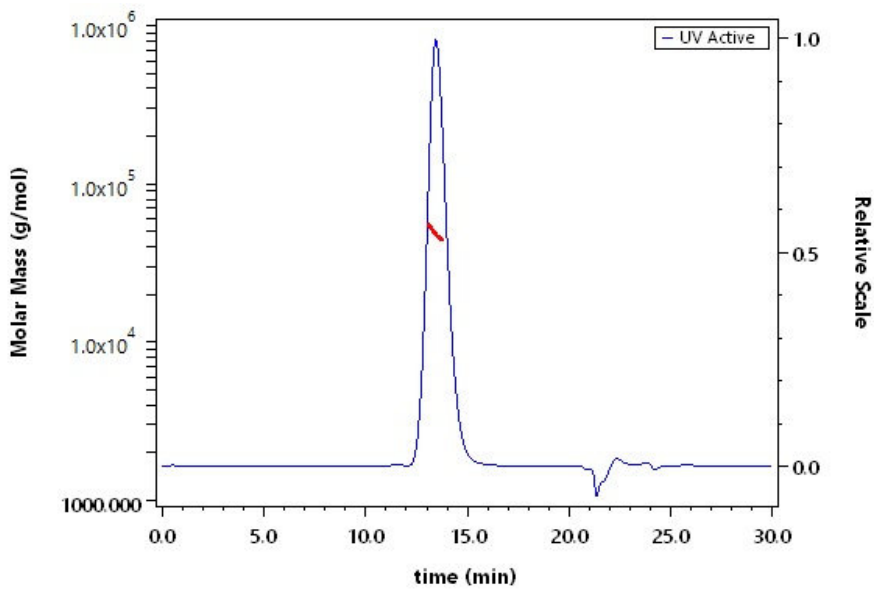
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



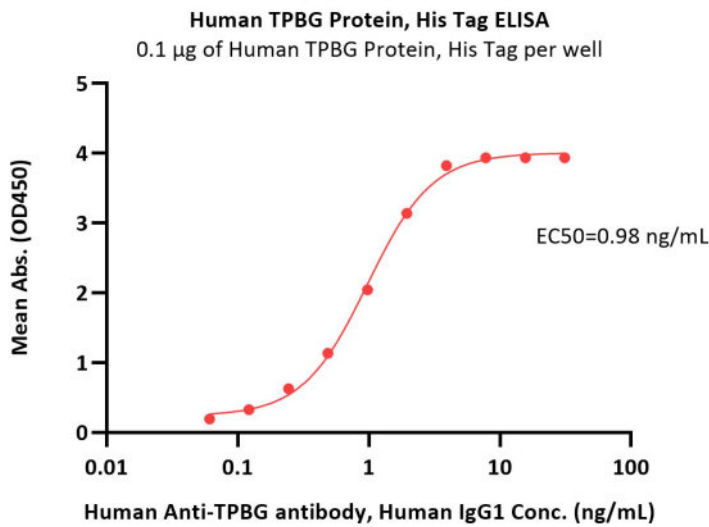
Human TPBG Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human TPBG Protein, His Tag (Cat. No. TPG-H52H3) is more than 90% and the molecular weight of this protein is around 40-60 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human TPBG Protein, His Tag (Cat. No. TPG-H52H3) at 1 µg/mL (100 µL/well) can bind Human Anti-TPBG antibody, Human IgG1 with a linear range of 0.06-2 ng/mL (QC tested).

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. This gene encodes a leucine-rich transmembrane glycoprotein that may be involved in cell adhesion. TPBG is expressed by all types of trophoblasts as early as 9 weeks of development.

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