

## CGB5 Protein, Human, Recombinant (His)

### General Information

Synonyms:	chorionic gonadotropin beta subunit 5;HCG;chorionic gonadotropin $\beta$ subunit 5;hCGB;CGB5;CGB
Protein Construction:	A DNA sequence encoding the human CGB5 (P01233-1) (Met1-Gln165) was expressed with a C-terminal polyhistidine tag. Predicted N terminal: Ser 21
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01233-1
Molecular Weight:	17 kDa (predicted); 34 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m 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

The human CGB5 gene encodes chorionic gonadotropin (hCG)beta 5, which is aberrantly expressed in trophoblastic neoplasm and in some non-trophoblastic neoplasms. Functional studies observed that it involved tumor initiation, growth, and metastatic outgrowth. Carriage of particular variants in the promoter of the CGB5 gene seems to protect against RM.

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