

CGB5 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	HCG;hCGB;chorionic gonadotropin beta subunit 5;chorionic gonadotropin β subunit 5;CGB5;CGB
Protein Construction:	A DNA sequence encoding the human CGB5 (NP_000728.1) (Met1-Gln165) was expressed with the Fc region of mouse IgG1 at the C-terminus. Predicted N terminal: Ser 21
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P0DN86
Molecular Weight:	41.9 kDa (predicted); 56 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/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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