

## GGH/Glutamyl hydrolase gamma Protein, Human, Recombinant (His)

### General Information

Synonyms:	GGH/Glutamyl hydrolase $\gamma$ ; $\gamma$ -glutamyl hydrolase (conjugase, foylpolyyglutamyl hydrolase); gamma-glutamyl hydrolase (conjugase, foylpolyyglutamyl hydrolase); GH
Protein Construction:	A DNA sequence encoding the human GGH (NP_003869.1) (Met1-Asp318) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Arg 25
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q92820
Molecular Weight:	35.1 kDa (predicted)

### 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:	> 95 % 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 20 mM Tris, 150 mM NaCl, pH 8.0. 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

gamma-Glutamyl hydrolase (GGH) regulates intracellular folates and antifolates such as methotrexate (MTX) for proper nucleotide biosynthesis and antifolate-induced cytotoxicity, respectively. GGH is a ubiquitously-expressed enzyme that regulates intracellular folate metabolism for cell proliferation, DNA synthesis, and repair. cytoplasmic GGH might play a relevant role in the development and progression of invasive breast cancer.

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