

# Recombinant Human Gamma-glutamyl hydrolase/GGH Protein

Catalog No.: RP03146 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	8836	Q92820

### Tags

C-His

### Synonyms

Gamma-glutamyl hydrolase; GGH;  
Gamma-Glu-X carboxypeptidase

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0. Contact us for customized product form or formulation.


### Reconstitution

Centrifuge the vial 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 stabilizer (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

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.

## Basic Information

### Description

Recombinant Human Gamma-glutamyl hydrolase/GGH Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Arg25-Asp318) of Human Gamma-glutamyl hydrolase/GGH (Accession #NP\_003869.1) fused with a 6xHis tag at the C-terminus.

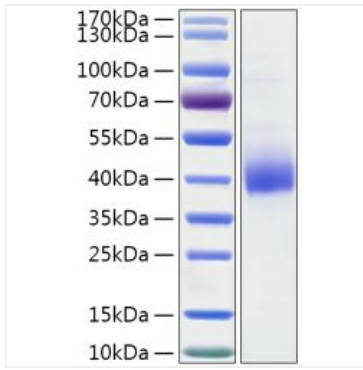
### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80 °C for 12 months. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human Gamma-glutamyl hydrolase/GGH Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38-42 kDa.