

# Recombinant Human Gamma-glutamyl hydrolase/GGH Protein

Catalog No.: RP01957 Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot** Human 8836 Q92820

Tags

N-His

## **Synonyms**

GGH;Gamma-glutamyl hydrolase; EC:3.4.19.9; Conjugase; GH; Gamma-Glu-X carboxypeptidase

## **Product Information**

**Source** Purification *E. coli* ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

34.93 kDa 30-35 kDa

## Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$  of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.22 µm filtered solution of 20mM HEPES, 150mM NaCl, 1mM TCEP, pH 8.0.

#### 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 stablizer (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 E. coli expression system. The target protein is expressed with sequence (Arg25-Asp318) of Human Gamma-glutamyl hydrolase/GGH (Accession #NP\_003869.1) fused with a His tag at the N-terminus.

### **Bio-Activity**

#### **Shipping**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

## **Storage**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

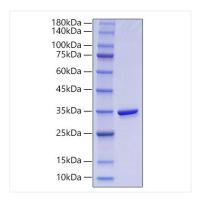
Avoid repeated freeze/thaw cycles.

## **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

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# **Validation Data**



Recombinant Human Gamma-glutamyl hydrolase/GGH Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.