

Recombinant Human Gamma-glutamyl hydrolase /GGH Protein

Catalog No.: RP01957

Sequence Information

Species	Gene ID
Human	8836
Swiss Prot	Tags
Q92820	N-His

Synonyms

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

Product Information

Source	Purification
<i>E. coli</i>	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
34.93 kDa	30-35 kDa

Endotoxin

< 0.1 EU/μg 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

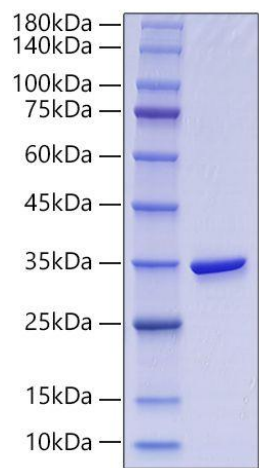
Operational Notes

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

Contact

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Validation Data



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