

GGH/Glutamyl hydrolase gamma Protein, Human (HEK293, His)

Cat. No.:	HY-P76953
Synonyms:	Gamma-glutamyl hydrolase; Conjugase; GH; Gamma-Glu-X carboxypeptidase
Species:	Human
Source:	HEK293
Accession:	Q92820/NP_003869.1(M25-D318)
Gene ID:	8836
Molecular Weight:	Approximately 40 kDa.

PROPERTIES

AA Sequence	<pre> R P H G D T A K K P I I G I L M Q K C R N K V M K N Y G R Y Y I A A S Y V K Y L E S A G A R V V P V R L D L T E K D Y E I L F K S I N G I L F P G G S V D L R R S D Y A K V A K I F Y N L S I Q S F D D G D Y F P V W G T C L G F E E L S L L I S G E C L L T A T D T V D V A M P L N F T G G Q L H S R M F Q N F P T E L L L S L A V E P L T A N F H K W S L S V K N F T M N E K L K K F F N V L T T N T D G K I E F I S T M E G Y K Y P V Y G V Q W H P E K A P Y E W K N L D G I S H A P N A V K T A F Y L A E F F V N E A R K N N H H F K S E S E E E K A L I Y Q F S P I Y T G N I S S F Q Q C Y I F D </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	GGH (Glutamyl hydrolase gamma) protein is instrumental in the hydrolysis of polyglutamate sidechains present in pteroylpolyglutamates. Its enzymatic activity involves the progressive removal of gamma-glutamyl residues from
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pteroylpoly-gamma-glutamate, resulting in the generation of pteroyl-alpha-glutamate (folic acid) and free glutamate. This process, as elucidated by studies, suggests that GGH may hold a pivotal role in modulating the bioavailability of dietary pteroylpolyglutamates, and also plays a significant role in the metabolism of both pteroylpolyglutamates and antifolates.

Caution: Product has not been fully validated for medical applications. For research use only.

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