

HELPHY Protein, Helicobacter pylori (His)

Cat. No.:	HY-P702130
Synonyms:	Glutathione hydrolase proenzyme
Species:	Others
Source:	E. coli
Accession:	O25743 (S25-F567, T380A)
Gene ID:	/
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

pylorigamma-glutamyltranspeptidase (HpGT) is expressed as a 60-kDa inactive precursor that must undergo autocatalytic processing to generate a 40-kDa/20-kDa heterodimer with full gamma-glutamyl amide bond hydrolase activity. The resultant N terminus, Thr-380, has been shown to be the catalytic nucleophile in both the autoprocessing and enzymatic reactions. HpGT is a member of the N-terminal nucleophile hydrolase superfamily. HpGT has also been shown to up-regulate COX-2 and epidermal growth factor-related peptides in human gastric mucosal cells and to induce apoptosis in human gastric epithelial cells^[1].

Helicobacter pylori γ-glutamyltranspeptidase (HpGT) catalyzes the first step in glutathione degradation, removing glutamate from the tripeptide and its conjugates via a γ-glutamyl enzyme intermediate. The γ-glutamyl group can be transferred to water (hydrolysis) or an amino acid or short peptide (transpeptidation)^[2].

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

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