

## HP-0175 Protein, Helicobacter pylori (GST)

Cat. No.:	HY-P700388
Synonyms:	Rotamase HP_0175; Putative peptidyl-prolyl cis-trans isomerase HP_0175
Species:	Others
Source:	E. coli
Accession:	P56112 (K22-K299)
Gene ID:	/
Molecular Weight:	58.8 kDa

### PROPERTIES

AA Sequence	<pre> K P A H N A N N A T   H N T K K T T D S S   A G V L A T V D G R   P I T K S D F D M I K Q R N P N F D F D   K L K E K E K E A L   I D Q A I R T A L V   E N E A K T E K L D S T P E F K A M M E   A V K K Q A L V E F   W A K K Q A E E V K   K V Q I P E K E M Q D F Y N A N K D Q L   F V K Q E A H A R H   I L V K T E D E A K   R I I S E I D K Q P K A K K E A K F I E   L A N R D T I D P N   S K N A Q N G G D L   G K F Q K N Q M A P D F S K A A F A L T   P G D Y T K T P V K   T E F G Y H I I Y L   I S K D S P V T Y T Y E Q A K P T I K G   M L Q E K L F Q E R   M N Q R I E E L R K   H A K I V I N K </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 Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
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 <sub>2</sub> O.
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	HP-0175 is an antigen secreted by Helicobacter pylori. HP-0175 is a peptidyl proline cis-trans isomerase that has a part-time effect on host cells. HP-0175 may provide a link between helicobacter pylori-associated inflammation and gastric cancer by promoting pro-inflammatory, low-cytotoxic TIL responses, stromal degradation, and pro-angiogenesis pathways. HP-0175 relies on the unfolded protein response (UPR) to autophagy in gastric epithelial cells and induce apoptosis <sup>[1][2][3]</sup> .
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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