

# Human GGT1 Protein

Cat. No. GGT-HM101



## Description

<b>Source</b>	Recombinant Human GGT1 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Pro27-Tyr569.
<b>Accession</b>	P19440-1
<b>Molecular Weight</b>	The protein has a predicted MW of 59.69 kDa. Due to enzyme lysis and glycosylation, the protein migrates to 55-65 kDa (heavy chain) and 25-30 kDa (light chain) based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

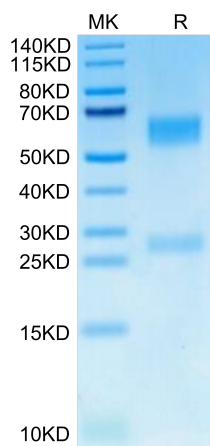
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Gamma-glutamyl transferase (GGT; EC 2.3.2.2) is the only enzyme capable of degrading glutathione (GSH) in extra-cytosolic spaces. Overexpression of  $\gamma$ -glutamyl transpeptidase (GGT1) has been implicated in an array of human diseases including asthma, reperfusion injury, and cancer.

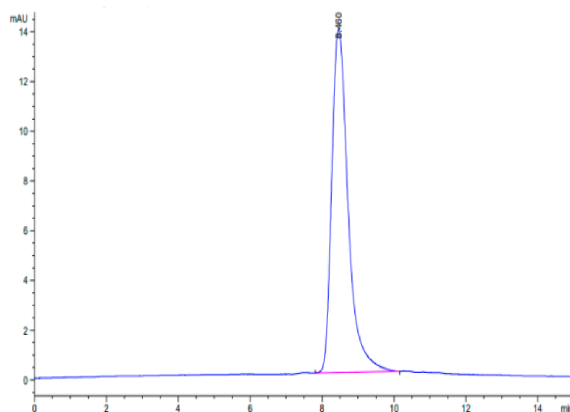
## Assay Data

### Bis-Tris PAGE



Human GGT1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human GGT1 is greater than 95% as determined by SEC-HPLC.