

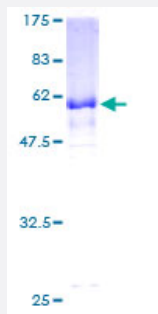
Full-Length

# GNPTG (Human) Recombinant Protein (P01)

Catalog # H00084572-P01

Size 10 ug, 25 ug

## Applications



## Specification

### Product Description

Human GNPTG full-length ORF ( AAH14592, 19 a.a. - 304 a.a.) recombinant protein with GST-tag at N-terminal.

### Sequence

PAPAGAAKMKVVEEPNAFGVNNPFLPQASRLQAKRDPSPVSGPVHLFRLSGKCFSLVESTYKY  
EFCPFHNVTQHEQTFRWNAYSILGWHEWEIANNTFTGMWMRDGDACRSRSRQSKVELACGK  
SNRLAHVSEPSTCVYALTFETPLVCHPHALLVYPTLPEALQRQWDRVEQDLADELITPQGHEKLL  
RTLFEDAGYLKTPENEPTQLEGGPDSLGFETLENCRAHKELSKEIKRLKGLLTQHGIPYTRPTETS  
NLEHLGHETPRAKSPEQLRGDPGLRGSL

### Host

Wheat Germ (in vitro)

### Theoretical MW (kDa)

57.2

### Interspecies Antigen Sequence

Mouse (80); Rat (79)

### Preparation Method

[in vitro wheat germ expression system](#)

### Purification

Glutathione Sepharose 4 Fast Flow

### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note**

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — GNPTG

**Entrez GeneID**[84572](#)**GeneBank Accession#**[BC014592](#)**Protein Accession#**[AAH14592](#)**Gene Name**

GNPTG

**Gene Alias**

C16orf27, GNPTAG, LP2537, RJD9

**Gene Description**

N-acetylglucosamine-1-phosphate transferase, gamma subunit

**Omim ID**[252605 607838](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

UDP-N-acetylglucosamine:lysosomal-enzyme N-acetylglucosamine-1-phosphotransferase (GlcNAc-phosphotransferase) catalyzes the initial step in the synthesis of the mannose 6-phosphate determinant required for efficient intracellular targeting of newly synthesized lysosomal hydrolases to the lysosome. GlcNAc-phosphotransferase is an alpha-2/beta-2/gamma-2 hexameric complex, the enzyme product of 2 genes, 1 encoded by a gene on chromosome 16 (GNPTG) and the other by a gene on chromosome 12 (GNPTAB; MIM 607840).[supplied by OMIM]

**Other Designations**

GlcNAc-phosphotransferase gamma-subunit|N-acetylglucosamine-1-phosphotransferase, gamma subunit