

Recombinant Full Length Human GNPTG Protein, GST-tagged

Cat. No. GNPTG-5406HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GNPTG full-length ORF (AAH14592, 19 a.a. - 304 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	19-304 amino acids
Description	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
Molecular Mass	57.2 kDa
AA Sequence	PAPAGAAKMKVVEEPNAFGVNNPFLPQASRLQAKRDPSPVSGPVHLFRLSGKCFSL VESTYKYEFCPFHNVTQHEQTFRWNAYSGILGIWHEWEIANNTFTGMWMRDGDAC RSRSRQSKVELACGKSNRLAHVSEPSTCVYALTFETPLVCHPHALLVYPTLPEALQR QWDRVEQDLADELITPQGHEKLLRTLFEAGYLKTPENEPTQLEGGPDSLGFETLE NCRKAHKELSKEIKRLKGLLTQHGIPYTRPTETSNLEHLGHETPRAKSPEQLRGDPG LRGSL

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	GNPTG N-acetylglucosamine-1-phosphate transferase, gamma subunit [Homo sapiens]
Official Symbol	GNPTG
Synonyms	GNPTG; N-acetylglucosamine-1-phosphate transferase, gamma subunit; C16orf27, chromosome 16 open reading frame 27, GNPTAG, N acetylglucosamine 1 phosphotransferase, gamma subunit; N-acetylglucosamine-1-phosphotransferase subunit gamma; c316G12.3; CAB56184; GlcNAc phosphotransferase gamma subunit; glcNAc-1-phosphotransferase subunit gamma; UDP-N-acetylglucosamine-1-phosphotransferase subunit gamma; RJD9; GNPTAG; LP2537; C16orf27;
Gene ID	84572
mRNA Refseq	NM_032520
Protein Refseq	NP_115909

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MIM	607838
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UniProt ID	Q9UJJ9
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