

Recombinant Human GNPTG Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GNPTG-5153H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GNPTG MS Standard C13 and N15-labeled recombinant protein (NP_115909) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes the gamma subunit of the N-acetylglucosamine-1-phosphotransferase complex. This hexameric complex, composed of alpha, beta and gamma subunits, catalyzes the first step in synthesis of a mannose 6-phosphate lysosomal recognition marker. This enzyme complex is necessary for targeting of lysosomal hydrolases to the lysosome. Mutations in the gene encoding the gamma subunit have been associated with mucopolipidosis IIIC, also known as mucopolipidosis III gamma.
Molecular Mass	33.8 kDa
AA Sequence	MAAGLARLLLLLGLSAGGPAPAGAAKMKVVEEPNAFGVNNPFLPQASRLQAKRDPS PVSGPVHLFRLSGKCFSLVESTYKYEFCPFHNVTQHEQTFRWNAYSGLGIWHEWEI ANNTFTGMWMRDGDACRSRSRQSKVELACGKSNRLAHVSEPSTCVYALTFETPLV CHPHALLVYPTLPEALQRQWDQVEQDLADELITPQGHEKLLRTLTFEDAGYLKTPENE PTQLEGGPDSLGFETLENCRAHKELSKEIKRLKGLLTQHGIPTTRPTETSNLEHLGH ETPRAKSPEQLRGDPGLRGSLSGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	GNPTG N-acetylglucosamine-1-phosphate transferase subunit gamma [Homo sapiens (human)]
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
MIM	607838

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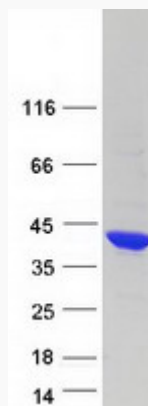
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UniProt ID

Q9UJJ9

SDS-PAGE

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