

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

Cat. No. GNE-6082H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GNE MS Standard C13 and N15-labeled recombinant protein (NP_005467) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a bifunctional enzyme that initiates and regulates the biosynthesis of N-acetylneuraminic acid (NeuAc), a precursor of sialic acids. It is a rate-limiting enzyme in the sialic acid biosynthetic pathway. Sialic acid modification of cell surface molecules is crucial for their function in many biologic processes, including cell adhesion and signal transduction. Differential sialylation of cell surface molecules is also implicated in the tumorigenicity and metastatic behavior of malignant cells. Mutations in this gene are associated with sialuria, autosomal recessive inclusion body myopathy, and Nonaka myopathy. Alternative splicing of this gene results in transcript variants encoding different isoforms.
Molecular Mass	79.3 kDa
AA Sequence	MEKNGNRRKLRVCVATCNRADYSKLAPIMFGIKTEPEFFELDVVVLGSHLIDYDYGNT YRMIEQDDFDINTRLHTIVRGEDEAAMVESVGLALVKLPDVLNRLKPDIMIVHGDRFD ALALATSAALMNIRILHIEGGEVSGTIDDSIRHAITKLAHYHVCCTRSAEQHLISMCD HDRILLAGCPSYDKLLSAKNKDYMSIIRMWLGDDVKSVDYIVALQHPVTTDIKHSIKM

 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

FELTLDALISFNKRTLVLFPNIDAGSKEMVRVMRKKGIEHHPNFRAVKHVPFDQFIQL
 VAHAGCMIGNSSCGVREVGAFGTPVINLGTRQIGRETGENVLHVRDADTQDKILQAL
 HLQFGKQYPCSKIYGDGNAVPRILKFLKSIDLQEPLQKKFCFPPVKENISQDIDHILET
 LSALAVDLGGTNLRVAIVSMKGEIVKKYTQFNPKTYEERINLILQMCVEAAAEAVKLN
 CRILGVGISTGGRVNPREGIVLHSTKLIQEWNSVDLRTPLSDLHLPVWVDNDGNCA
 ALAERKFGQGKLENFVTLITGTGIGGGIIHQHELIHGSSFCAAELGHLVVS LDGPDC
 SCGSHGCIEAYASGMALQREAKKLHDEDLLLVEGMSVPKDEAVGALHLIQAAKLG
 AKAQSILRTAGTALGLGVNLTHTMNP SLVILSGVLASHYIHIVKDVIRQQALSSVQDV
 DVVVSDLVDPALLGAASMVLDYTTTRRIYTRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

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 GNE glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase [Homo sapiens (human)]

Official Symbol GNE

Synonyms GNE; glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase; IBM2, UDP N acetylglucosamine 2 epimerase/N acetylmannosamine kinase; bifunctional

 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

UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase; Uae1; N-acylmannosamine kinase; UDP-GlcNAc-2-epimerase/ManAc kinase; UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase; UDP-N-acetylglucosamine-2-epimerase/N-acetylmannosamine kinase; NM; DMRV; IBM2; GLCNE;

Gene ID 10020

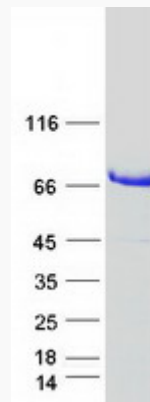
mRNA Refseq NM_005476

Protein Refseq NP_005467

MIM 603824

UniProt ID Q9Y223

SDS-PAGE



 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