Bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase (GNE) Recombinant Protein | GNE recombinant protein

Recombinant Human Bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase (GNE)

CATALOG #	HOST
AAA117280	**E Coli or Yeast or Baculovirus or Mammalian Cell**

PRODUCT SYNONYMS

Bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase (GNE); Recombinant Human Bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase (GNE); GNE recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-722aa; Full Length Protein
Sequence	MEKNGNNRKL RVCVATCNRA DYSKLAPIMF GIKTEPEFFE LDVVVLGSHL IDDYGNTYRM IEQDDFDINT RLHTIVRGED EAAMVESVGL ALVKLPDVLN RLKPDIMIVH GDRFDALALA TSAALMNIRI LHIEGGEVSG TIDDSIRHAI TKLAHYHVCC TRSAEQHLIS MCEDHDRILL AGCPSYDKLL SAKNKDYMSI IRMWLGDDVK SKDYIVALQH PVTTDIKHSI KMFELTLDAL ISFNKRTLVL FPNIDAGSKE MVRVMRKKGI EHHPNFRAVK HVPFDQFIQL VAHAGCMIGN SSCGVREVGA FGTPVINLGT RQIGRETGEN VLHVRDADTQ DKILQALHLQ FGKQYPCSKI YGDGNAVPRI LKFLKSIDLQ EPLQKKFCFP PVKENISQDI DHILETLSAL AVDLGGTNLR VAIVSMKGEI VKKYTQFNPK TYEERINLIL QMCVEAAAEA VKLNCRILGV GISTGGRVNP REGIVLHSTK LIQEWNSVDL RTPLSDTLHL PVWVDNDGNC AALAERKFGQ GKGLENFVTL ITGTGIGGGI IHQHELIHGS SFCAAELGHL VVSLDGPDCS CGSHGCIEAY ASGMALQREA KKLHDEDLLL VEGMSVPKDE AVGALHLIQA AKLGNAKAQS ILRTAGTALG LGVVNILHTM NPSLVILSGV LASHYIHIVK DVIRQQALSS VQDVDVVVSD LVDPALLGAA SMVLDYTTRR IY
Species	Human
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

ADDITIONAL INFORMATION

Related Product Information for GNE recombinant protein	This protein 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	190014632
NCBI GeneID	10020
NCBI Accession #	NP_001121699.1
NCBI GenBank Nucleotide #	NM_001128227.2

UniProt Accession #	Q9Y223; Q0VA94; A6PZH2; A6PZH3; A7UNU7; B2R6E1; B7Z372; B7Z428; D3DRP7; F5H499; H0YFA7
Molecular Weight	66,784 Da
NCBI Official Full Name	bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase isoform 1
NCBI Official Synonym Full Names	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase
NCBI Official Symbol	GNE
NCBI Official Synonym Symbols	NM; DMRV; IBM2; Uae1; GLCNE
NCBI Protein Information	bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase
UniProt Protein Name	Bifunctional UDP-N-acetylglucosamine 2-epimerase/N-acetylmannosamine kinase
UniProt Gene Name	**GNE**
UniProt Synonym Gene Names	GLCNE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/gne-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/117280