

Recombinant Human GNE, His-tagged

Cat. No. GNE-13359H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GNE protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	376-722a.a.
Description	This gene encodes a member of the glutaredoxin family. Glutaredoxins are oxidoreductase enzymes that reduce a variety of substrates using glutathione as a cofactor. The encoded protein binds to and modulates the function of protein kinase C theta. The encoded protein may also inhibit apoptosis and play a role in cellular growth, and the expression of this gene may be a marker for cancer. Pseudogenes of this gene are located on the short arm of chromosomes 6 and 9. Alternatively spliced transcript variants have been observed for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

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Gene Name	GNE glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase [Homo sapiens]
Official Symbol	GNE
Synonyms	GNE; glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase; IBM2, UDP N acetylglucosamine 2 epimerase/N acetylmannosamine kinase; bifunctional 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_001128227
Protein Refseq	NP_001121699
MIM	603824
UniProt ID	Q9Y223
Chromosome Location	9p13.1
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; CMP-N-acetylneuramate biosynthesis I (eukaryotes), organism-specific biosystem; Metabolic pathways, organism-specific biosystem;

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Function

ATP binding; N-acylmannosamine kinase activity; UDP-N-acetylglucosamine 2-epimerase activity; isomerase activity; kinase activity; nucleotide binding; transferase activity;

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