

Recombinant Human GNE 293 Cell Lysate

Cat. No. GNE-5858HCL **Lot. No.** (See product label)

SPECIFICATION

| | |
|----------------------------|---|
| Species | Human |
| Source | HEK293 |
| Description | Antigen standard for glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamin e kinase (GNE), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA B uffer. Protein concentration was determined using a colorimetric assay. The antigen c ontrol carries a C-terminal Myc/DDK tag for detection. |
| Components | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| Size | 0.1 mg |
| Storage Instruction | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment. |
| Applications | ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the |

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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 |

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sugar and nucleotide sugar metabolism, conserved biosystem; CMP-N-acetylneuraminate biosynthesis I (eukaryotes), organism-specific biosystem; Metabolic pathways, organism-specific biosystem;

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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