

Recombinant human N-acetyl-D-glucosamine kinase

Catalog No: #AP71592



Package Size: #AP71592-1 20ug #AP71592-2 100ug #AP71592-3 1mg

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Description

Product Name	Recombinant human N-acetyl-D-glucosamine kinase
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-344aaSequence Info:Full Length
Other Names	GlcNAc kinase
Accession No.	Q9UJ70
Uniprot	Q9UJ70
GeneID	55577;
Calculated MW	53.2 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	AAIYGGVEGGGTRSEVLLVSEDGKILAEADGLSTNHWLIGTDKVERINEMVNRKRKAGVDPLVPLRSLGSL SGGDQEDAGRILIEELRDRFPYLSSEYLITDAAGSIATATPDGGVVLISGTGSNCRLINPDGSESGCGGWGHM MGDEGSAYWIAHQAVKIVFDSIDNLEAAPHDIGYVKQAMFHYFQVPDRLGILTHLYRDFDKCRFAGFCRKAIEG AQQGDPLSRYIFRKAGEMLGRHIVAVLPEIDPVLFGQKIGLPILCVGSVWKSWEKLLKEGFLALQTGREIQAQN FFSSFTLMKLRHSSALGGASLGRHIGLHLLPMDYSANAIAYFYTS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Converts endogenous N-acetylglucosamine (GlcNAc), a major component of complex carbohydrates, from lysosomal degradation or nutritional sources into GlcNAc 6-phosphate. Involved in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway; although human is not able to catalyze formation of Neu5Gc due to the inactive CMAHP enzyme, Neu5Gc is present in food and must be degraded. Also has ManNAc kinase activity.

References

Molecular cloning and characterization of murine and human N-acetylglucosamine kinase.Hinderlich S., Berger M., Schwarzkopf M., Effertz K., Reutter W.Eur. J. Biochem. 267:3301-3308(2000)Research Topic:Signal Transduction

Note: This product is for in vitro research use only