

Recombinant Rat Gpi protein, His & T7-tagged

Cat. No. Gpi-723R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Gpi aa. (Thr335~Asp558 (Accession # Q6P6V0)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Rat
Source	E.coli
ProteinLength	Thr335~Asp558
Description	This gene encodes a member of the glucose phosphate isomerase protein family. A similar protein in human and mouse has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. In the cytoplasm, the gene product functions as a glycolytic enzyme (glucose-6-phosphate isomerase) that interconverts glucose-6-phosphate and fructose-6-phosphate. Extracellularly, the protein (also referred to as neuroleukin) functions as a neurotrophic factor that promotes survival of skeletal motor neurons and sensory neurons, and as a lymphokine that induces immunoglobulin secretion. The protein is also referred to as autocrine motility factor based on an additional function as a tumor-secreted cytokine and angiogenic factor.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 25.4kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 8.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Gpi glucose-6-phosphate isomerase [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Gpi
Synonyms	Gpi; glucose-6-phosphate isomerase; Amf; Nlk; Pgi; Phi; Gpi1; glucose-6-phosphate isomerase; autocrine motility factor
Gene ID	292804
mRNA Refseq	NM_207592.1

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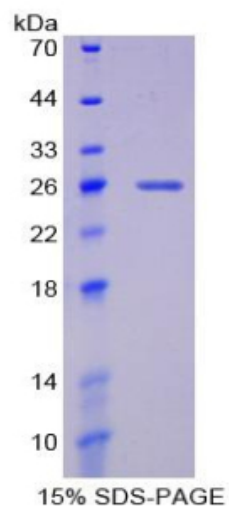
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Protein Refseq NP_997475.1

UniProt ID Q6P6V0

SDS-PAGE



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