

Glucose-6-phosphate isomerase (Gpi) Recombinant Protein | Gpi recombinant protein

Recombinant Mouse Glucose-6-phosphate isomerase (Gpi)

CATALOG # AAA113543	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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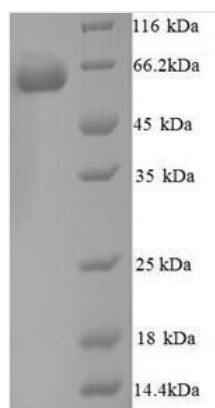
PRODUCT SYNONYMS

Glucose-6-phosphate isomerase (Gpi); Recombinant Mouse Glucose-6-phosphate isomerase (Gpi); Autocrine motility factor; AMF; Neuroleukin; NLK; Phosphoglucose isomerase; PGI; Phosphohexose isomerase; PHI; Gpi 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	2-558aa; Full Length of Mature Protein
Sequence	AALTRNPQFQ KLEWHRANS ANLKLRELFE ADPERFNNFS LNLNTNHGHI LVDYSKNLVN KEVMQMLVEL AKSRGVEAAR DNMFSGSKIN YTENRAVLHV ALRNRSTNPI KVDGKDVMPE VNRVLDMKS FCQVRVSGDW KGYTGKSITD IINIGIGSD LGPLMVTEAL KPYSKGGPRV WFSNIDGTH IAKTLASLSP ETSLFIIASK TFFTQETITN AETAKEWFLE AAKDPSAVAK HFVALSTNTA KVKEFGIDPQ NMFEFWDWVG GRYSLWSAIG LSIALHVGFD HFEQLLSGAH WMDQHFLKTP LEKNAPVLLA LLGIWIYINCY GCETHALLPY DQYMRFAAY FQQGDMESNG KYITKSGARV DHQTGPIVWG EPGTNGQHAF YQLIHQGTKM IPCDFLIPVQ TQHPIRKGLH HKILLANFLA QTEALMKGKL PEEARKELQA AGKSPEDLEK LLPHKVFEGN RPTNSIVFTK LTPFILGALI AMYEHKIFVQ GIMWDINSFD QWGVELGKQL AKKIEPELEG SSAVTSHDSS TNGLISFIKQ QRDTKLE
Production Note	Special Offer: The Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. Yeasthost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Gpi recombinant protein	Besides it's role as a glycolytic enzyme, mammalian GPI can function as a tumor-secreted cytokine and an angiogenic factor (AMF) that stimulates endothelial cell motility. GPI is also a neurotrophic factor (Neuroleukin) for spinal and sensory neurons.
Product Categories/Family for Gpi recombinant protein	Neuroscience
References	Molecular cloning and expression of neuroleukin, a neurotrophic factor for spinal and sensory neurons.Gurney M.E., Heinrich S.P., Lee M.R., Yin H.-S.Science 234:566-574(1986) Lineage-specific biology revealed by a finished genome assembly of the mouse.Church D.M., Goodstadt L., Hillier L.W., Zody M.C., Goldstein S., She X., Bult C.J., Agarwala R., Cherry J.L., DiCuccio M., Hlavina W., Kapustin Y., Meric P., Maglott D., Birtle Z., Marques A.C., Graves T., Zhou S., Teague B., Potamousis K., Churas C., Place M., Herschleb J., Runnheim R., Forrest D., Amos-Landgraf J., Schwartz D.C., Cheng Z., Lindblad-Toh K., Eichler E.E., Ponting C.P.PLoS Biol. 7:E1000112-E1000112(2009) Lubec G., Klug S., Kang S.U. Mouse glucose-6-phosphate isomerase and neuroleukin have identical 3' sequences.Faik P., Walker J.I.H., Redmill A.A.M., Morgan M.J.Nature 332:455-456(1988) Proteomic identification of proteins conjugated to ISG15 in mouse and human cells.Giannakopoulos N.V., Luo J.K., Papov V., Zou W., Lenschow D.J., Jacobs B.S., Borden E.C., Li J., Virgin H.W., Zhang D.E.Biochem. Biophys. Res. Commun. 336:496-506(2005) SIRT5-mediated lysine desuccinylation impacts diverse metabolic pathways.Park J., Chen Y., Tishkoff D.X., Peng C., Tan M., Dai L., Xie Z., Zhang Y., Zwaans B.M., Skinner M.E., Lombard D.B., Zhao Y.Mol. Cell 50:919-930(2013) The crystal structure of mouse phosphoglucose isomerase at 1.6A resolution and its complex with glucose 6-phosphate reveals the catalytic mechanism of sugar ring opening.Solomons J.T.G., Zimmerly E.M., Burns S., Krishnamurthy N., Swan M.K., Krings S., Muirhead H., Chirgwin J., Davies C.J. Mol. Biol. 342:847-860(2004) Tumor cell autocrine motility factor is the neuroleukin/phosphohexose isomerase polypeptide.Watanabe H., Takehana K., Date M., Shinozaki T., Raz A.Cancer Res. 56:2960-2963(1996) Crystal structures of mouse autocrine motility factor in complex with carbohydrate phosphate inhibitors provide insight into structure-activity relationship of the inhibitors.Tanaka N., Haga A., Naba N., Shiraiwa K., Kusakabe Y., Hashimoto K., Funasaka T., Nagase H., Raz A., Nakamura K.T.J. Mol. Biol. 356:312-324(2006)

NCBI AND UNIPROT INFORMATION

NCBI GeneID	14751
UniProt Accession #	P06745; O89062; Q3TEE7; Q3TW50; Q3UUX1; Q3UY84; Q3UZJ1; Q5RJI3; Q8C675; Q9JM07
Molecular Weight	64.6 kDa
NCBI Official Synonym Full Names	glucose phosphate isomerase 1
NCBI Official Symbol	Gpi1
NCBI Official Synonym Symbols	MF; NK; Amf; Gpi; Nlk; Org; Pgi; Phi; Gpi-1; Gpi1s; Gpi-1r; Gpi-1s; Gpi-1t; Gpi1-r; Gpi1-s; Gpi1-t; NK/GPI
NCBI Protein Information	glucose-6-phosphate isomerase
UniProt Protein Name	Glucose-6-phosphate isomerase
UniProt Gene Name	Gpi
UniProt Synonym Gene Names	Gpi1; GPI; AMF; NLK; PGI; PHI
UniProt Entry Name	G6PI_MOUSE

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