

Recombinant human GPI protein

Catalog Number: ATGP0348

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-558aa

UniProt No.

P06744

NCBI Accession No.

NP_000166

Alternative Names

Glucose-6-phosphate isomerase, GPI, AMF, GNPI, NLK, PGI, PHI, SA36, EC 5.3.1.9, Neuroleukin, Phosphoglucose isomerase, Phosphohexose isomerase, SA 36, Sperm antigen 36, G6PI, Glucose-6-phosphate isomerase

PRODUCT SPECIFICATION

Molecular Weight

65.3 kDa (578aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Glucose-6-phosphate isomerase, also known as GPI, belongs to the GPI family whose members encode multifunctional phosphoglucose isomerase proteins involved in energy pathways. The protein encoded by this gene is a dimeric enzyme that catalyzes the reversible isomerization of glucose-6-phosphate and fructose-6-

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phosphate. 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. Recombinant human GPI, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

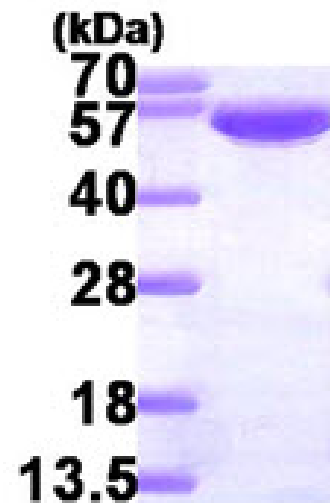
MGSSHHHHHH SGLVPRGSH MAALTRDPQF QKLQQWYREH RSELNLRRLF DANKDRFNHF SLTLNTNHGH ILVDYSKNLV
TEDVMRMLVD LAKSRGVEAA RERMFNGEKI NYTEGRAVLH VALRNRSNTP ILVDGKDVMPEVNKVLDMK SFCQVRSGD
WKGYTGTIT DVINIGIGGS DLGPLMVTEA LKPYSSGGPR VWYVSNIDGT HIAKTLAQLN PESSLFIAS KTFTTQETIT
NAETAKEWFL QAAKDPSAVA KHFVALSTNT TKVKEFGIDP QNMFEFWDWV GGRYSLWSAI GLSIALHVGFDNFEQLLSGA
HWMQDHFRTT PLEKNAPVLL ALLGIWYINC FGCETHAMLP YDQYLHRFAA YFQQGDMESN GKYITKSGTR VDHQTGPIVW
GEPGTNGQHA FYQLHQGTK MIPCDFLIPV QTQHPKRLG HHKILLANFL AQTEALMRGK STEEARKELQ AAGKSPEDLE
RLLPHKVFEG NRPTNSIVFT KLTPFMLGAL VAMYEHKIFV QGIIWDINSF DQWGVLELGGQ LAKKIEPELD GSAQVTSHDA
STNGLINFIK QQREARVQ

General References

Lin HY., et al. (2009) *Biochim Biophys Acta*. 1794(2):315-23.
Beutler E., et al. (1997) *Blood cells Mol*. 23:402-409.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.