
Product Data Sheet

Product Name: GPI Human, Active

Cat. No.: GP26154

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Glucose-6-phosphate isomerase, Autocrine motility factor, Neuroleukin, Phosphoglucose isomerase, Phosphohexose isomerase, Sperm antigen 36, GPI, AMF, GNPI, NLK, PGI, PHI, SA36, SA-36.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MAALTRDPQF QKLQQWYREH RSELNLRRLF DANKDRFNHF SLTLNTNHGH ILVDYSKNLV TEDVMRMLVD LAKSRGVEAA RERMFNGEKI NYTEGRAVLH VALRNRSNTP ILVDGKDVMP EVNKVLDKMK SFCQRVRS GD WKG YTGKTIT DVINIGIGGS DLGPLMVTEA LKP YSSGGPR VWYVSNIDGT HIAKTLAQLN PESSLFIAS KTFTTQETIT NAETAKEWFL QAAKDPSAVA KH FVALSTNT TKVKEFGIDP QNMF EFWDWV GG RYSLWSAI GLSIALHVGF DNFEQLLSGA HWMDQHFR TT PLEKNAPVLL ALLGIWYINC FGCETHAMLP YDQYLHRFAA YFQQGDMESN GKYITKSGTR VDHQTGP I WV GEPGTNGQHA FYQLIHQGTK MIPCDFLIPV QTQHPIRKGL HHKILLANFL AQTEALMRGK STEEARKELQ AAGKSPEDLE RLLPHKVFEG NRPTNSIVFT KLTPFMLGAL VAMYEHKIFV QGIIWDINSF DQWGVELGKQ LAKKIEPELD GSAQVTSHDA STNGLINFIK QQREARVQ</p>		
Formulation	The GPI solution (1 mg/ml) contains 10% Glycerol, 1mM DTT and 20mM Tris-HCl buffer (pH 8.0).		

Introduction

GPI or Glucose-6-phosphate isomerase, is a protein, part of the multifunctional phosphoglucose isomerase family, which its members take part in energy pathways. GPI is a dimeric enzyme that enhances the isomerization of glucose-6-phosphate and fructose-6-phosphate (both reversible). In mammals, GPI acts as an angiogenic factor & tumor-secreted cytokine. The enzyme also acts as a neurotrophic factor for spinal & sensory neurons.

Caution: Product has not been fully validated for medical applications. For research use only.

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Biological Activity

Specific activity is > 400unit/mg.It is defined by the increase of NADPH in absorbance at 340 nm, resulting from the reduction of NADP. 1 unit will convert 1.0 umole of D-Fructose 6-phosphate to D-glucose 6- phosphate per minute at pH 7.4 at 37°C.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

GPI Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 578 amino acids (1-558) and having a molecular mass of 65.3 kDa.GPI is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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