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32-6774: GPI Human, Active

Application : Functional Assay

Alternative Name : Glucose-6-phosphate isomerase, Autocrine motility factor, Neuroleukin, Phosphoglucose isomerase, Phosphohexose isomerase, Sperm antigen 36, GPI, AMF, GNPI, NLK, PGI, PHI, SA36, SA-36.

Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

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.

GPIHuman 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.

Product Info

Amount :	2 µa / 10 µa
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The GPI solution (1 mg/ml) contains 10% Glycerol, 1mM DTT and 20mM Tris-HCl buffer (pH 8.0).
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MAALTRDPQF QKLQQWYREH RSELNLRRLF DANKDRFNHF SLTLNTNHGH ILVDYSKNLV TEDVMRMLVD LAKSRGVEAA RERMFNGEKI NYTEGRAVLH VALRNRSNTP ILVDGKDVMP EVNKVLDKMK SFCQRVRSGD WKGYTGKTIT DVINIGIGGS DLGPLMVTEA LKPYSSGGPR VWYVSNIDGT HIAKTLAQLN PESSLFIIAS KTFTTQETIT NAETAKEWFL QAAKDPSAVA KHFVALSTNT TKVKEFGIDP QNMFEFWDWV GGRYSLWSAI GLSIALHVGF DNFEQLLSGA HWMDQHFRTT PLEKNAPVLL ALLGIWYINC FGCETHAMLP YDQYLHRFAA YFQQGDMESN GKYITKSGTR VDHQTGPIVW GEPGTNGQHA FYQLIHQGTK MIPCDFLIPV QTQHPIRKGL HHKILLANFL AQTEALMRGK STEEARKELQ AAGKSPEDLE RLLPHKVFEG NRPTNSIVFT KLTPFMLGAL VAMYEHKIFV QGIIWDINSF DQWGVELGKQ LAKKIEPELD GSAQVTSHDA STNGLINFIK QQREARVQ

Application Note

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 $37\tilde{A}$ $\hat{A}^{\circ}C$.