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32-6981: GlpK E. coli

Alternative Name : Glycerol kinase, glycerol 3-phosphotransferase, Glycerokinase, GK.

Description

Source: Escherichia Coli.
Sterile Filtered clear solution.
GlpK also known as glycerol kinase, is a member of the FGGY kinase family. GlpK catalyzes the transfer of a phosphate group from ATP to glycerol, thereby forming glycerol phosphate. Furthermore, this intermediate can then be converted to dihydroxyacetone phosphate (DHAP), which is utilized in either glycolysis or gluconeogenesis. The activity of GlpK is affected by numerous metabolites. The non-competitive allosteric inhibition by fructose 1,6-bisphosphate (FBP) triggers modifications in the quaternary structure of Glpk.
GlpK E. Coli Recombinant produced in E. coli is a single, non-glycosylated polypeptide chain containing 525 amino acids (1-502 a.a) and having a molecular mass of 58.6 kDa.GlpK is fused to a 23 amino acid His-tag at N-terminus& purified by proprietary chromatographic techniques.

Product Info

Amount :	5 µg / 20 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	GlpK protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4),10% glycerol and 1mM DTT.
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 MGSMTEKKYI VALDQGTTSS RAVVMDHDAN IISVSQREFE QIYPKPGWVE HDPMEIWATQ SSTLVEVLAK ADISSDQIAA IGITNQRETT IVWEKETGKP IYNAIVWQCR RTAEICEHLK RDGLEDYIRS NTGLVIDPYF SGTKVKWILD HVEGSRERAR RGELLFGTVD TWLIWKMTQG RVHVTDYTNA SRTMLFNIHT LDWDDKMLEV LDIPREMLPE VRRSSEVYGQ TNIGGKGGTR IPISGIAGDQ QAALFGQLCV KEGMAKNTYG TGCFMLMNTG EKAVKSENGL LTTIACGPTG EVNYALEGAV FMAGASIQWL RDEMKLINDA YDSEYFATKV QNTNGVYVVP AFTGLGAPYW DPYARGAIFG LTRGVNANHI IRATLESIAY QTRDVLEAMQ ADSGIRLHAL RVDGGAVANN FLMQFQSDIL GTRVERPEVR EVTALGAAYL AGLAVGFWQN LDELQEKAVI EREFRPGIET TERNYRYAGW KKAVKRAMAW EEHDE.

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