

glpK, 1-847aa, E.coli, His tag, E.coli

Cat.NO.: TP02257

3th Edition

Synonyms:Glycerol kinase

Description:glpK also known as glycerol kinase, belongs to the FGGY kinase family. glpK function to catalyze the transfer of a phosphate group from ATP to glycerol, thereby forming glycerol phosphate. This intermediate can then be converted to dihydroxyacetone phosphate (DHAP), which is utilized in either glycolysis or gluconeogenesis. Recombinant E.coli glpK, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol, 1mM DTT

Molecular Weight:58.6kDa (525aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMTEKKYIVALDQGTSSRAVVMDHDANIISVSQREFEQIYPKPGWVEHDPM
EIWATQSSTLVEVLAKADISSDQIAAIGITNQRETTIVWEKETGKPIYNAIVWQCRRTAEICEHLKRDGLEDYIRSNTGL
VIDPYFSGTKVKWILDHVEGSRRERARRGELLFGTVDTWLIWKMTQGRVHVTDYTNASRTMLFNIHTLDWDDKMLEV
LDIPREMLPEVRRSSEVYGQTNIGGKGGTRIPISGIAGDQQAALFGQLCVKEGMAKNYGTGCFMLMNTGEKAVKS
ENGLTTIACGPTGEVNYALEGAVFMAGASIQWLRDEMKLINDAYDSEYFATKVQNTNGVYVPAFTGLGAPYWD
YARGAIFGLTRGVNANHIIRATLESIAQTRDVLEAMQADSGIRLHALRVDGGAVANNFLMQFQSDILGTRVERPEV
REVTALGAAYLAGLAVGFQNLDELQEKAVEREFRPGIETTERNYRYAGWKKAVKRAMAWEEHDE

Purity:> 95% by HPLC

Concentration:1mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.