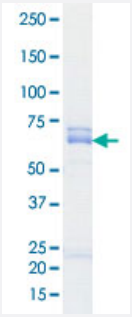
Bioactive Full-Length

PHKG1 (Human) Recombinant Protein

Catalog # P5621 Size 5 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human PHKG1 (NP_006204.1, 1 a.a. - 387 a.a.) full-length recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Host	insect
Theoretical MW (kDa)	72
Form	Liquid
Preparation Method	Baculovirus infected insect cell (Sf21) expression system
Purification	Glutathione sepharose chromatography
Purity	59 % by SDS-PAGE/CBB staining

Activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg(or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip 3000. Substrate: GS peptide. ATP: 100 uM.
Quality Control Testing	Loading 1 ug protein in SDS-PAGE
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — PHKG1

Entrez GeneID	5260
Protein Accession#	NP_006204.1
Gene Name	PHKG1
Gene Alias	PHKG
Gene Description	phosphorylase kinase, gamma 1 (muscle)
Omim ID	172470
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the Ser/Thr protein kinase family and encodes a protein with one protein kinase domain and two calmodulin-binding domains. This protein is the catalytic member of a 16 subunit protein kinase complex which contains equimolar ratios of 4 subunit types. The complex is a crucial glycogenolytic regulatory enzyme. This gene has two pseudogenes at chromosome 7q11.21 and one at chromosome 11p11.12. [provided by RefSeq
Other Designations	phosphorylase b kinase gamma catalytic chain, skeletal muscle isoform|phosphorylase kinase gamma subunit 1

Pathway

- Calcium signaling pathway
- Insulin signaling pathway