

Recombinant Human Phosphorylase Kinase, Gamma 2 (testis), GST-tagged

Cat. No. PHKG2-1893H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanfull length PHKG2 with N-terminal GST tag was expressed in insect cells. Itsmolecular weight is 73900 Dalton.
Species	Human
Source	Insect Cells
Description	PHKG2 is a polymerof 16 subunits, four each of alpha, beta, gamma and delta. The alpha subunitincludes the skeletal muscle and hepatic isoforms, encoded by two differentgenes. The beta subunit is the same in both the muscle and hepatic isoforms,and encoded by one gene. The gamma subunit also includes the skeletal muscleand hepatic isoforms, and the hepatic isoform is encoded by this gene. Thedelta subunit is a calmodulin and can be encoded by three different genes.The gamma subunits contain the active site of the enzyme, whereas the alphaand beta subunits have regulatory functions controlled by phosphorylation.
Form	Liquid in 50 mMTris, pH 7.5 + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT +50% glycerol.
Molecular Weight	73.9 kDa
Storage	Stable for 6 monthsin working aliquots at -80°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	PHKG2

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Full Length

Full L.

GENE INFORMATION

Gene Name

PHKG2 phosphorylase kinase, gamma 2(testis) [Homo sapiens]

Synonyms

PHKG2; phosphorylasekinase, gamma 2 (testis); GSD9C; Phosphorylase b kinase gamma catalyticchain, testis/liver isoform; PHK-gamma-T; EC 2.7.11.19; Phosphorylase kinasesubunit gamma 2; PSK-C3; Serine/threonine-protein kinase PHKG2; EC 2.7.11.1;EC 2.7.11.26

Gene ID

5261

mRNA Refseq

NM_000294

Protein Refseq

NP_000285

MIM

172471

UniProt ID

P15735

**Chromosome
Location**

16p11.2

Pathway

Calcium signalingpathway; Glucose metabolism; Insulin signaling pathway; Metabolism ofcarbohydrates

Function

ATP binding;calmodulin binding; enzyme binding; nucleotide binding; proteinserine/threonine kinase activity; tau-protein kinase activity

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