

## PHKG2 Protein, Human (Sf9, GST)

Cat. No.:	HY-P701740
Synonyms:	PHKG2; Phosphorylase b kinase gamma catalytic chain; liver/testis isoform; PHK-gamma-LT; PHK-gamma-T; PSK-C3; Phosphorylase kinase subunit gamma-2
Species:	Human
Source:	Sf9 insect cells
Accession:	P15735 (T2-G406)
Gene ID:	5261
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	PHKG2 (Phosphorylase Kinase Catalytic Subunit 2) serves as the catalytic subunit of phosphorylase b kinase (PHK), a key enzyme involved in mediating the neural and hormonal regulation of glycogen breakdown (glycogenolysis). Its primary function is to phosphorylate and activate glycogen phosphorylase, playing a central role in the mobilization of glucose from glycogen stores. Besides its involvement in glycogenolysis, PHKG2 may also regulate glycogenolysis specifically in the testis. In vitro studies have shown that PHKG2 phosphorylates PYGM, suggesting potential roles in muscle function or glycogen metabolism beyond its canonical function in glycogenolysis. It has to highlight PHKG2's essential role in regulating glycogenolysis and hints at potential tissue-specific functions in the testis.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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