

PHKG2 active protein

Recombinant PHKG2 protein

CATALOG #
AAA60331

HOST
Baculovirus

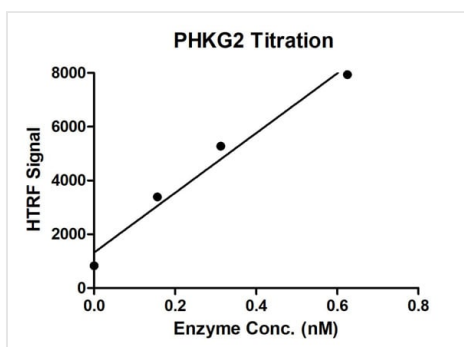
PRODUCT SYNONYMS

PHKG2; Recombinant PHKG2 protein; Phosphorylase Kinase Catalytic Subunit Gamma 2; PHKG2 active protein

PRODUCT SPECIFICATIONS

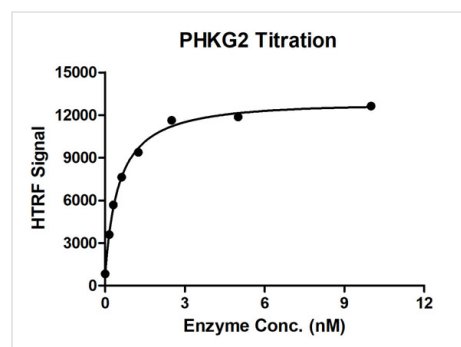
Host	Baculovirus
Purity/Purification	>70%
Form/Format	Recombinant PHKG2 protein is supplied in 25 mM HEPES-NaOH pH 7.5, 300 mM NaCl, 10% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Protein Details	Recombinant PHKG2 protein was expressed in baculovirus expression system as the full length protein (accession number NP_000285.1) with a N-terminal DYKDDDDK tag. The molecular weight of the protein is 47.7 kDa.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

IMAGES



Bioactivity

HTRF Assay for Recombinant PHKG2 activity. 1 μ M STK S1 substrate was incubated with different concentrations of PHKG2 protein in 10 μ l reaction system containing 1 $\times$ Enzymatic Buffer, 10 mM MgCl₂, 1 mM DTT and 100 μ M ATP for 1 hour. The 10 μ l detection reagents containing anti-STK antibody (1:2) and SA-XL665 (1:100) diluted with 1 $\times$ Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature. HTRF assay was used for detection.



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SDS-PAGE

Recombinant PHKG2 protein gel 10% SDS-PAGE gel with Coomassie blue staining MW: 47.7 kDa Purity: >70%

ADDITIONAL INFORMATION

Related Product Information for PHKG2 active protein	Phosphorylase kinase is a polymer of 16 subunits, four each of alpha, beta, gamma and delta. The alpha subunit includes the skeletal muscle and hepatic isoforms, encoded by two different genes. 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 muscle and hepatic isoforms, and the hepatic isoform is encoded by this gene. The delta subunit is a calmodulin and can be encoded by three different genes. The gamma subunits contain the active site of the enzyme, whereas the alpha and beta subunits have regulatory functions controlled by phosphorylation. The delta subunit mediates the dependence of the enzyme on calcium concentration. Mutations in this gene cause glycogen storage disease type 9C, also known as autosomal liver glycogenosis. PHKG2 (Phosphorylase Kinase Catalytic Subunit Gamma 2) mediates the neural and hormonal regulation of glycogen breakdown (glycogenolysis) by phosphorylating and thereby activating glycogen phosphorylase. May regulate glycogenolysis in the testis. Diseases associated with PHKG2 include Glycogen Storage Disease Ixc and Glycogen Storage Disease Due To Liver Phosphorylase Kinase Deficiency.
Product Categories/Family for PHKG2 active protein	Kinase; Recombinant Proteins

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/phkg2/60331>