

Recombinant Mouse PGK1/PGKA Protein (His Tag)

Catalog Number: PKSM040299

Note: Centrifuge before opening to ensure complete recovery of vial contents.

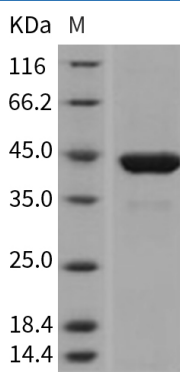
Description

Species	Mouse
Source	Baculovirus-Insect Cells-derived Mouse PGK1/PGKA protein Met 1-Val 417, with an C-terminal His
Calculated MW	46.0 kDa
Observed MW	43 kDa
Accession	P09411
Bio-activity	Kinase activity untested

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as sterile solution of 20mM Tris, 500mM NaCl, pH 7.4

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Phosphoglycerate kinase 1 (PGK1) is an enzyme. It is mainly expressed in spermatogonia and localized on the principle piece in the sperm. Its expression significantly decreased in the testis of elderly men. PGK1 is involved in a critical energy-producing process known as glycolysis. It helps carry out a chemical reaction that converts a molecule called 1,3-diphosphoglycerate, which is produced during the breakdown of glucose, to another molecule called 3-phosphoglycerate during glycolysis. PGK1 may also act as a cofactor for polymerase alpha. The protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions.

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