

Recombinant Human PGK1/PGKA Protein (His Tag)

Catalog Number: PKSH032892

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

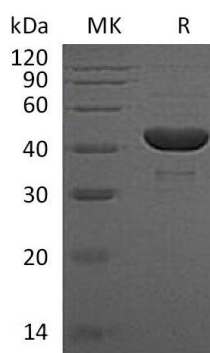
Description

Species	Human
Source	HEK293 Cells-derived Human PGK1;PGKA protein Ser2-Ile417, with an C-terminal His
Calculated MW	45.5 kDa
Observed MW	37-50 kDa
Accession	P00558
Bio-activity	Not validated for activity

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 a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 20% Glycerol, pH 8.0.

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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