PGK1
Recombinant Human Phosphoglycerate Kinase 1 His

Catalog No.	CS462A	**Quantity:**	5 µg
	CS462B		25 µg
	CS462C		1 mg

Alternate Names: Primer recognition protein 2, Cell migration-inducing gene 10 protein, HEL-S-68p, PGKA, MIG10

Description: Phosphoglycerate Kinase 1 is an X-linked enzyme that has a major role in the glycolytic pathway. PGK1 is a glycolytic enzyme that catalyzes the conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate, generating an ATP molecule. PGK1 may also act as a cofactor for polymerase alpha. Defects in the PGK1 gene are usually associated with chronic hemolytic anemia, though it can be accompanied by either mental retardation or muscular disease (rhabdomyolysis). Overexpression of PGK1 and its signalling targets are possibly an expression-pathway in diffuse primary gastric carcinomas promoting peritoneal dissemination. It was shown that PGK1 is differentially expressed in the dorsolateral prefrontal cortex from patients with schizophrenia.

Recombinant Human PGK1 is a single, non-glycosylated, polypeptide chain containing 437 amino acids (aa 1-417) fused to a 20 aa His-Tag at the N-terminus.

Gene ID: 5230

Source: *E. coli*

Molecular Weight: 46.8 kDa

Formulation: Sterile filtered colorless solution containing 20 mM Tris, pH 8.0, + 10% Glycerol + 1 mM DTT.

Purity: >95.0% as determined by SDS-PAGE.

Amino Acid Sequence: **MGSSHHHHHH SSGLVPRGSH** MSLSNKLTLD KLDVKGKRVV MRVDFNVPMK NNQITNNQRI KAAVPSIKFC LDNGAKSVVL MSHLGRPDGV PMPDKYSLEP VAVELKSLLG KDVLFLKDCV GPEVEKACAN PAAGSVILLE NLRFHVEEEG KGKDASGNKV KAEPAKIEAF RASLSKLGDV YVNDAFGTAH RAHSSMVGVN LPQKAGGFLM KKELNYFAKA LESPERPFLA ILGGAKVADK IQLINNMLDK VNEMIIGGGM AFTFLKVLNN MEIGTSLFDE EGAKIVKDLM SKAEKNGVKI TLPVDFVTAD KFDENAKTGQ ATVASGIPAG WMGLDCGPES SKKYAEAVTR AKQIVWNGPV GVFEWEAFAR GTKALMDEVV KATSRGCITI IGGGDTATCC AKWNTEDKVS HVSTGGGASL ELLEGKVLPG VDALSNI

Storage & Stability: PGK1 although stable 2-4°C for 4 weeks, should be stored desiccated at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.**

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