

Human GCK Recombinant Protein



RPPB2541

Product Information Protein Information

Product SKU:

RPPB2541

Accession:

P35557

Host:

Escherichia Coli.

Protein description:

GCK Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 485 amino acids (1-465 a.a) and having a molecular mass of 54.3kDa. GCK is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Appearance:

Sterile filtered colorless solution.

Synonyms:

Glucokinase, Glucokinase (Hexokinase 4), Hexokinase Type IV, HK IV, HK4, Maturity Onset Diabetes of The Young 2, ATP:D-Hexose 6-Phosphotransferase, Hexokinase D, Pancreatic Isozyme, Hexokinase-4, Hexokinase-D, Hexokinase 4.

Formulation:

GCK protein solution (1mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0) and 10% glycerol.

Purity:

Greater than 95% as determined by SDS-PAGE.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid Sequence:

MGSSHHHHH SSGLVPRGSH MLDDRAMEA AKKEKVEQIL AEFQLQEEDL KKVMRRMQKE MDRGLRLETH
EEASVKMLPT YVRSTPEGSE VGDFLSLDLG GTNFRVMLVK VGEGEEGQWS VKTKHQMYSI PEDAMTGTAE
MLFDYISECI SDFLDKHQMK HKKLPLGFTF SFPVRHEDID KGILLNWTKG FKASGAEGNN VVGLLRDAIK
RRGDFEMDVV AMVNDTVATM ISCYYEDHQC EVGMIVGTGC NACymeEMQN VELVEGDEGR
MCVNTEWGAF GDSGELDEFL LEYDRLVDES SANPGQQLYE KLIGGKYMGE LVRLVLLRLV DENLLFHGEA
SEQLRTRGAF ETRFVSQVES DTGDRKQIYN ILSTLGLRPS TTDCDIVRRA CESVSTRAAH MCSAGLAGVI
NRMRESSED VMRITVGVDG SVYKLHPSFK ERFHASVRRRL TPSCEITFIE SEEGSGRGAA LVSAVACKKA
CMLGQ.

Biological Activity:

Specific activity is > 2,000 pmol/min/ug. One unit will convert 1 pmoles of D-Glucose to D-Glucose-6-phosphate per minute at pH8.0 at 37C.