Glucokinase (GCK) (NM_033508) Human Over-expression Lysate

E45H17321-

Catalog Number:E45H17321-2

NCBI Gene ID:2645

Calculated MW:51.9 kDa

Storage: Upon receiving, store the sample at -80°C. After dilution, the protein sample should be aliquoted and stored at -80°C for long term storage. Avoid repeated freeze-thaw cycles. Lysate samples can be diluted with 2 x SDS Sample Buffer provided. Lysate samples are stable for 12 months from the date of receipt when stored at -80°C.

Cite ID#:EN5538601

Type: Human Lysates

Research Field: Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Maturity onset diabetes of the young, Metabolic pathways, Starch and sucrose metabolism, Type II diabetes mellitus

Description: Transient overexpression lysate of glucokinase (hexokinase 4) (GCK), transcript variant 3

Protein length: GoldORF Clone [GH48327V]

Expression Host:HEK293T

Species: Human

Tag:C-Myc/DDK

Detection principle: Detection Antibody: Clone LBI4C5, Anti-DDK (FLAG) monoclonal antibody ([AMM08808V])

Kit components:1 vial of gene specific transient over-expression cell lysate in RIPA buffer 1 vial of whole HEK293T cell lysate in RIPA buffer 1 vial of 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% glycerol, 0.002% Bromophenol blue, 100mM DTT)

Gene symbol:GCK

mRNA Refseq:NM_033508

Protein Refseq:NP_277043

Chromosome location:7p13

Pathway: Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Maturity onset diabetes of the young, Metabolic pathways, Starch and sucrose metabolism, Type II

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diabetes mellitus

Function: Druggable Genome

Form: Liquid

Preparation:HEK293T cells in 10-cm dishes were transiently transfected with Leading Biology Transfection Reagent (TF002V) and 5ug Leading Biology GoldORF cDNA plasmid. Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer (25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1 x Proteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4), and then centrifuged to clarify the lysate. Protein concentration was measured by BCA kit (Thermo Scientific Inc.). Cell lysates were aliquoted and stored at -20°C before shipping.

Synonyms:FGQTL3; GK; GLK; HHF3; HK4; HKIV; HXKP; LGLK; MODY2; PNDM1