

Recombinant Human GCKR Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GCKR-6373H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GCKR MS Standard C13 and N15-labeled recombinant protein (NP_001477) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a protein belonging to the GCKR subfamily of the SIS (Sugar ISomerase) family of proteins. The gene product is a regulatory protein that inhibits glucokinase in liver and pancreatic islet cells by binding non-covalently to form an inactive complex with the enzyme. This gene is considered a susceptibility gene candidate for a form of maturity-onset diabetes of the young (MODY).
Molecular Mass	69.1 kDa
AA Sequence	<p>MPGTRFQHVIVTPEPGKWELSGYEA AVPI TEKSNPLTQDLDKADAENIVRLLGQCD AEIFQEEGQALSTYQRLYSGSILTTMVQVAGKVQEV LKEPDGGLVVL SGGGTSGRM AFLMSVSNQLMKGLGQKPLYTYLIAGGDRSVVASREGTEDSALHGIEELKKVAAGK KRVIVIGISVGLSAPFVAGQMDCCMNNTAVFLPVLVGFNPVSMARNDPIEDWSSTFR QVAERMQKMQEKKAFVLNPAIGPEGLSGSSRMKGGSATKILLETLLAAHKTVDQ GIAASQRCLLEILRTFERAHQVTYSQSPKIATLMKSVSTSLEKKGHVYLVGWQTLGIIA IMDGVECIHTFGADFRDVRGFLIGDHSDFNQKAE LTNQGPQFTFSQEDFLTSILPSL TEIDTVVFIFTLDDNLTEVQTIVEQVKEKTNHIQALAHSTVGQTLPIPLKKLFPSIISITW</p>

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PLLFFEYEGNFIQKFQRELSTKWWLNTVSTGAHVLLGKILQNHMLDLRISNSKLFWRA
LAMLQRFSGQSKARCIESLLRAIHFPQPLSDDIRAAPISCHVQVAHEKEQVIPIALLSLL
FRCSITEAQAHLAAAPSVCEAVRSALAGPGQKRTADPLEILEPDVQTRTRPLEQKLIS
EEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [GCKR glucokinase regulator \[Homo sapiens \(human\) \]](#)

Official Symbol [GCKR](#)

Synonyms GCKR; glucokinase (hexokinase 4) regulator; glucokinase (hexokinase 4) regulatory protein; glucokinase regulatory protein; GKRP; FGQTL5;

Gene ID [2646](#)

mRNA Refseq [NM_001486](#)

Protein Refseq [NP_001477](#)

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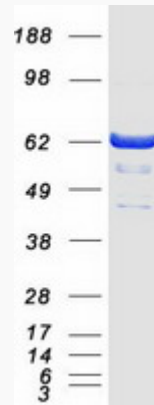
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MIM 600842

UniProt ID Q14397

SDS-PAGE



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