

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | GCKR MS Standard C13 and N15-labeled recombinant protein (NP_001477) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | 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).                                                                                          |
| <b>Molecular Mass</b>   | 69.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MPGTRKFQHVITPEPGKWELSGYEAAVPITEKSNPLTQDLKADAENIVRLLGQCD<br>AEIFQEEGQALSTYQRLYSGSILTTMVQVAGKVQEVLEKPDGGLVVLSGGGTSGRM<br>AFLMSVSFNQLMKGLGQKPLYTYLIAGGDRSVVASREGTEDSALHGIEELKKVAAGK<br>KRVIVIGISVGLSAPFVAGQMDCCMNNTAVFLPVLVGFNPVSMARNDPIEDWSSTFR<br>QVAERMQKMQEKKQAFVLNPAIGPEGLSGSSRMKGGSATKILLETLLAAHKTVDQ<br>GIAASQRCLEILRTFERAHQVTYSQSPKIATLMKSVSTSLEKKGHVYLVGWQTLGIIA<br>IMDGVECIHTFGADFRDVRGFLIGDHSDMFNQKAEELTNQGPQFTFSQEDFLTSILPSL<br>TEIDTVVFIFTLDDNLTEVQTIVEQVKEKTNHIQALAHSTVGQTLPIPLKKLFPSIISITW |

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PLLFFEYEGNFIQKFQRELSTKWVLNTVSTGAHVLLGKILQNHMLDLRISNSKLFWRA  
 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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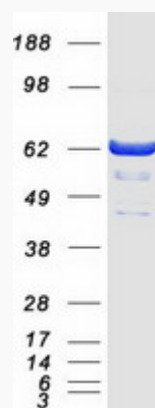
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MIM 600842

UniProt ID Q14397

SDS-PAGE



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