



Recombinant Human GCKR Protein Product Manual

1. Product Basic Information

Product No.: REP06963

Protein Name: Glucokinase Regulator (GCKR)

Aliases: GKRP; FGQTL5; glucokinase regulator; hexokinase 4 regulator; glucokinase regulatory protein; glucokinase (hexokinase 4) regulator

UniProt ID: Q14397

UniProt Link: <https://www.uniprot.org/uniprotkb/Q14397/entry>

Species Source: Homo sapiens (Human)

Expression System: E.coli

Protein Length: Full Length (1-625aa)

Molecular Weight: 84.7kDa

Protein Tag: N-terminal 6xHis-SUMO-tagged

2. Amino Acid Sequence (1-625aa)

MPGTKRFQHVITPEPGKWELSGYEAAVPITEKSNPLTQDLDKADAENIVRLLGQC
DAEIFQEEGQALSTYQRLYSESILTTMVQVAGKVQEVLKEPDGGLVVLSGGGTSGR
MAFLMSVSFNQLMKGLGQKPLYTYLIAGGDRSVVASREGTEDSALHGIEELKKVAA
GKKRVIVIGISVGLSAPFVAGQMDCMNNNTAVFLPVLVGFNPVSMARNDPIEDWSS
TFRQVAERMQKMKEKQKAFVLNPAIGPEGLSGSSRMKGGSATKILLETLLAAHKT
VDQGIAASQRCLLEILRTFERAHQVTYSQSPKIATLMKSVSTSLEKKGHVYLVGWQT
LGIIAIMDGVECIHTFGADFRDVRGFLIGDHSDMFNQKAELTNQGPQFTFSQEDFLT
SILPSLTEIDTVVFIFTLDDNLTEVQTIVEQVKEKTNHIQALAHSTVGQTLPIPLKKLFP
SIISITWPLLFFEYEGNFIQKFQRELSTKWVLNTVSTGAHVLLGKILQNHMLDLRISNS
KLFWRALAMLQRFSGQSKARCIESLLRAIHFPQPLSDDIRAAPISCHVQVAHEKEQVI
PIALLSLLFRCSITEAQAHLAAAPSVCEAVRSALAGPGQKRTADPLEILEPDVQ

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant Human GCKR full length protein (1-625aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. GCKR, also known as GKRP or FGQTL5 or glucokinase regulator, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.