

Recombinant Human GCKR protein, His-tagged

Cat. No. GCKR-6859H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GCKR aa. (Gln91~Ala286 (Accession # Q14397)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gln91~Ala286
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).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.3kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 8.6.

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Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in ddH ₂ O.

GENE INFORMATION

Gene Name	GCKR glucokinase regulator [Homo sapiens (human)]
Official Symbol	GCKR
Synonyms	GKRP; FGQTL5; glucokinase (hexokinase 4) regulator; hexokinase 4 regulator; glucokinase regulatory protein
Gene ID	2646
mRNA Refseq	NM_001486.3
Protein Refseq	NP_001477.2

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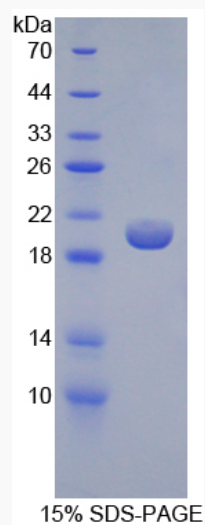
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UniProt ID

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SDS-PAGE

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