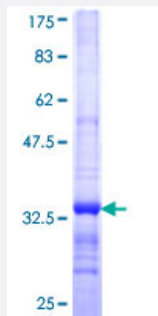


# ADPGK (Human) Recombinant Protein (Q01)

Catalog # H00083440-Q01

Size 25 ug, 10 ug

## Applications



## Specification

|                                      |                                                                                                           |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>           | Human ADPGK partial ORF ( NP_112574, 425 a.a. - 496 a.a.) recombinant protein with GST-tag at N-terminal. |
| <b>Sequence</b>                      | SLRAPQEFMTSHSEAGSRIVLNPKNPVVEWHREGISFHFTPVLVCKDPIRTVGLGDAISAEGLFYS EVHPHY                                 |
| <b>Host</b>                          | Wheat Germ (in vitro)                                                                                     |
| <b>Theoretical MW (kDa)</b>          | 33.66                                                                                                     |
| <b>Interspecies Antigen Sequence</b> | Mouse (91); Rat (92)                                                                                      |
| <b>Preparation Method</b>            | <a href="#">in vitro wheat germ expression system</a>                                                     |
| <b>Purification</b>                  | Glutathione Sepharose 4 Fast Flow                                                                         |
| <b>Quality Control Testing</b>       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                               |
| <b>Storage Buffer</b>                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                  |
| <b>Storage Instruction</b>           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                           |
| <b>Note</b>                          | Best use within three months from the date of receipt of this protein.                                    |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — ADPGK

|                     |                                                                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">83440</a>                                                                                                                                                                                                                     |
| GeneBank Accession# | <a href="#">NM_031284</a>                                                                                                                                                                                                                 |
| Protein Accession#  | <a href="#">NP_112574</a>                                                                                                                                                                                                                 |
| Gene Name           | ADPGK                                                                                                                                                                                                                                     |
| Gene Alias          | 2610017G09Rik, ADP-GK, DKFZp434B195                                                                                                                                                                                                       |
| Gene Description    | ADP-dependent glucokinase                                                                                                                                                                                                                 |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                 |
| Gene Summary        | ADPGK (EC 2.7.1.147) catalyzes the ADP-dependent phosphorylation of glucose to glucose-6-phosphate and may play a role in glycolysis, possibly during ischemic conditions (Ronimus and Morgan, 2004 [PubMed 14975750]).[supplied by OMIM] |
| Other Designations  | ATP-dependent glucokinase                                                                                                                                                                                                                 |

## Publication Reference

- [Deletion of genes involved in the ketogluconate metabolism, Entner-Doudoroff pathway, and glucose dehydrogenase increase local and invasive virulence phenotypes in Streptococcus pneumoniae.](#)

Hu FZ, Król JE, Tsai CHS, Eutsey RA, Hiller LN, Sen B, Ahmed A, Hillman T, Buchinsky FJ, Nistico L, Dice B, Longwell M, Horsey E, Ehrlich GD.

PLoS One 2019 Jan; 14(1):e0209688.

Application: Func, Recombinant protein

- [Expression and role in glycolysis of human ADP-dependent glucokinase.](#)

Richter S, Richter JP, Mehta SY, Gribble AM, Sutherland-Smith AJ, Stowell KM, Print CG, Ronimus RS, Wilson WR.

Molecular and Cellular Biochemistry 2012 Jan; 364(1-2):131.

Application: WB, Human, As a control

## Disease

- [Tobacco Use Disorder](#)