

Full-Length

DGUOK (Human) Recombinant Protein (P01)

Catalog # H00001716-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human DGUOK full-length ORF (AAH15757, 1 a.a. - 277 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAAGRLFLSRLRAPFSSMAKSPLEGVSSSRGLHAGRGPRRLSIEGNAVGKSTFVKLLTKTYPEW
HVATEPVATWQNIQAAGTQKACTAQSLGNLLDMMYREPARWSYTFQTFSFLSRLKVQLEPFPEK
LLQARKPVQIFERSVYSDRYIFAKNLFENGSLSDIEWHIYQDWHFLLWEFASRITLHGFYMQASPQ
VCLKRLYQRAREEEKGIELAYLEQLHGQHEAWLIHKTTKLHFEALMNIPVLVLDVNDDFSEEVTQK
EDLMREVNTFVKNL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

56.21

Interspecies Antigen Sequence

Mouse (75); Rat (76)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

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 — DGUOK

Entrez GeneID[1716](#)**GeneBank Accession#**[BC015757](#)**Protein Accession#**[AAH15757](#)**Gene Name**

DGUOK

Gene Alias

dGK

Gene Description

deoxyguanosine kinase

Omim ID[251880 601465](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

In mammalian cells, the phosphorylation of purine deoxyribonucleosides is mediated predominantly by two deoxyribonucleoside kinases, cytosolic deoxycytidine kinase and mitochondrial deoxyguanosine kinase. The protein encoded by this gene is responsible for phosphorylation of purine deoxyribonucleosides in the mitochondrial matrix. In addition, this protein phosphorylates several purine deoxyribonucleoside analogs used in the treatment of lymphoproliferative disorders, and this phosphorylation is critical for the effectiveness of the analogs. Alternative splice variants encoding different protein isoforms have been described for this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000160251|OTTHUMP00000160252|deoxyguanosine kinase, mitochondrial

Pathway

- [Metabolic pathways](#)
- [Purine metabolism](#)

Disease

- [Kidney Failure](#)