

Product datasheet for **TP304891**

Deoxyguanosine kinase (DGUOK) (NM_080916) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human deoxyguanosine kinase (DGUOK), nuclear gene encoding mitochondrial protein, transcript variant 1, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC204891 protein sequence
Red=Cloning site **Green**=Tags(s)

MAAGRLFLSRLRAPFSSMAKSPLEGVSSSRGLHAGRGPRLSIEGNIAVGKSTFVKLLTKTYPEWHVATE
PVATWQNIQAAGTQKACTAQSLSGNLLDMMYREPARWSYTFQTFSLRSLKVQLEPFPEKLLQARKPVQIF
ERSVYSDRYIFAKNLFENGSLSDIEWHIYQDWHFLLWEFASRITLHGFIYQASPVCLKRLYQRAREE
EKGIELAYLEQLHGQHEAWLIHKTTKLHFEALMNIPVLVLDVNDDFSEEVTKQEDLMREVNTFVKNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 27.9 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_550438](#)

Locus ID: 1716



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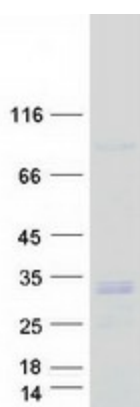
UniProt ID: [Q16854](#), [E5KSL5](#)
RefSeq Size: 1161
Cytogenetics: 2p13.1
RefSeq ORF: 831
Synonyms: dGK; MTDPS3; NCPH; PEOB4

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, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Purine metabolism

Product images:



Coomassie blue staining of purified DGUOK protein (Cat# TP304891). The protein was produced from HEK293T cells transfected with DGUOK cDNA clone (Cat# [RC204891]) using MegaTran 2.0 (Cat# [TT210002]).