

Recombinant Human DGUOK Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DGUOK-476H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DGUOK MS Standard C13 and N15-labeled recombinant protein (NP_550438) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	32.1 kDa
AA Sequence	MAAGRLFLSRLRAPFSSMAKSPLEGVSSSRGLHAGRGPRRLSIEGNIAVGKSTFVKL LTKTYPEWHVATEPVATWQNIQAAGTQKACTAQSLGNLLDDMYREPARWSYTFQT FSFLSRLKVQLEPFPEKLLQARKPVQIFERSVYSDDRYIFAKNLFENGSLSDIEWHIYQ DWHSFLLWEFASRITLHGFIYLAQSPQVCLKRLYQRAREEEKGIELAYLEQLHGQHE AWLIHKTTKLHFEALMNIPVLVLDVNDDFSEEVTKQEDLMREVNTFVKNLTRTRPLE

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QKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

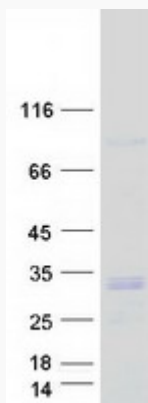
GENE INFORMATION

Gene Name	DGUOK deoxyguanosine kinase [Homo sapiens (human)]
Official Symbol	DGUOK
Synonyms	DGUOK; deoxyguanosine kinase; deoxyguanosine kinase, mitochondrial; dGK; MTDPS3;
Gene ID	1716
mRNA Refseq	NM_080916
Protein Refseq	NP_550438
MIM	601465
UniProt ID	Q16854

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SDS-PAGE

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