Recombinant Full Length Human DGUOK Protein, C-Flag-tagged

Cat. No. DGUOK-2174HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DGUOK Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	27.9 kDa
AA Sequence	MAAGRLFLSRLRAPFSSMAKSPLEGVSSSRGLHAGRGPRRLSIEGNIAVGKSTFVKL LTKTYPEWHVATE PVATWQNIQAAGTQKACTAQSLGNLLDMMYREPARWSYTFQT FSFLSRLKVQLEPFPEKLLQARKPVQIF ERSVYSDRYIFAKNLFENGSLSDIEWHIYQ DWHSFLLWEFASRITLHGFIYLQASPQVCLKRLYQRAREE EKGIELAYLEQLHGQHE

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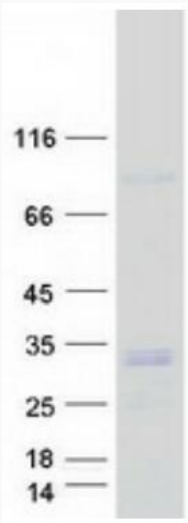
	AWLIHKTTKLHFEALMNIPVLVLDVNDDFSEEVTKQEDLMREVNTFVKNL TRTRPLE QKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Purine metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	DGUOK deoxyguanosine kinase [Homo sapiens (human)]
Official Symbol	DGUOK
Synonyms	dGK; NCPH; NCPH1; PEOB4; MTDPS3
Gene ID	1716

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mRNA Refseq	NM_080916.3
Protein Refseq	NP_550438.1
MIM	601465
UniProt ID	Q16854



Coomassie blue staining of purified DGUOK protein.

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