

Product datasheet for **TP760996**

Deoxyguanosine kinase (DGUOK) (NM_080918) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human deoxyguanosine kinase (DGUOK), nuclear gene encoding mitochondrial protein, transcript variant 2, full length, with N-terminal HIS tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding human full-length DGUOK
Tag:	N-His
Predicted MW:	17.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
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_550440
Locus ID:	1716
UniProt ID:	Q16854 , E5KSL6
RefSeq Size:	880
Cytogenetics:	2p13.1
RefSeq ORF:	567
Synonyms:	dGK; MTDPS3; NCPH; PEOB4



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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: