

## Product datasheet for PH304891

### Deoxyguanosine kinase (DGUOK) (NM\_080916) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DGUOK MS Standard C13 and N15-labeled recombinant protein (NP_550438)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204891
Predicted MW:	32.1 kDa
Protein Sequence:	>RC204891 protein sequence Red=Cloning site Green=Tags(s)

MAAGRLFLSRLRAPFSSMAKSPLEGVSSSRGLHAGRGPRRLSIEGNIAVGKSTFVKLLTKTYPEWHVATE  
PVATWQNIQAAGTQKACTAQSLGNLLDMYREPARWSYTFQTF SFLSRLKVQLEPFPEKLLQARKPVQIF  
ERSVYSDRYIFAKNLFENGLSDIEWHIYQDWSFLLWEFASRITLHGF IYLQASPQVCLKRLYQRAREE  
EKGIELAYLEQLHGQHEAWLIHKTTKLHFEALMNI PVLVLDVNDDFSEEVTQEDLMREVNTFVKNL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_550438</a>
RefSeq Size:	1161
RefSeq ORF:	831
Synonyms:	dGK; MTDPS3; NCPH; PEOB4
Locus ID:	1716
UniProt ID:	<a href="#">Q16854</a> , <a href="#">E5KSL5</a>



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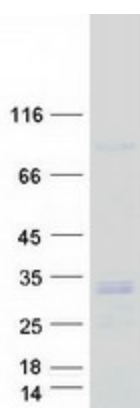
**Cytogenetics:** 2p13.1

**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]).