

Recombinant Mouse Dguok Protein, Myc/DDK-tagged

Cat. No. Dguok-2541M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length deoxyguanosine kinase (Dguok), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Phosphorylates deoxyguanosine and deoxyadenosine in the mitochondrial matrix, with the highest efficiency for deoxyguanosine. In non-replicating cells, where cytosolic dNTP synthesis is down-regulated, mtDNA synthesis depends solely on DGUOK and TK2. Phosphorylates certain nucleoside analogs. Widely used as target of antiviral and chemotherapeutic agents.
Molecular Mass	32.3 kDa
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 after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	Dguok deoxyguanosine kinase [Mus musculus (house mouse)]
Official Symbol	Dguok
Synonyms	DGUOK; deoxyguanosine kinase; deoxyguanosine kinase, mitochondrial; dGK; dGK1; dGK2; dGK3
Gene ID	27369
mRNA Refseq	NM_013764
Protein Refseq	NP_038792
UniProt ID	Q9QX60

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