

Recombinant Full Length Human Uridine-cytidine Kinase 2, C His-tagged

Cat. No. UCK2-930H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UCK2 protein, fused to His-tag at C-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 30.3kDa (269aa).
Species	Human
Source	E.coli
ProteinLength	1-261 a.a.
Description	UCK2 also known as uridine-cytidine kinase 2 is belongs to the uridinekinase family. UCK2 catalyzes the phosphorylation of uridine monophosphate to uridine diphosphate and cytidine monophosphate. It plays a role in the production of pyrimidine nucleoside triphosphates required for RNA and DNA synthesis. In addition, an allele of this gene may play a role in mediating nonhumoral immunity to Hemophilus influenzae type B.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl, 0.1mM PMSF, 1mM EDTA.
Purity	> 90% by SDS - PAGE.
Concentration	1mg/ml (determined by Bradford assay).

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Sequences Of Amino Acids	MAGDSEQTLQ NHQQPNGGEP FLIGVSGGTA SGKSSVCAKI VQLLGQNEVD YRQ KQVVILS QDSFYRVLTSEQKAKALKGQ FNFDHPDAFD NELILKTLKE ITEGKTVQIP VYDFVSHSRK EETVTVYPAD VVLFEGILAF YSQEVRDLFQ MKLFVDTDAD TRL SRRVLRD ISERGRDLEQ ILSQYITFVK PAFEEFCLPT KKYADVIIPR GADNLVAINL IVQHIQDILN GGPSKRQTNG CLNGYTPSRK RQASESSSRP HLEHHHHHHH.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Drug metabolism - other enzymes; Metabolic pathways; Pyrimidine metabolism; Metabolism of nucleotides
GENE INFORMATION	
Gene Name	UCK2 uridine-cytidine kinase 2 [Homo sapiens]
Synonyms	uridine-cytidine kinase 2; UK; UMPK; TSA903; UCK2; uridine kinase; uridine monophosphokinase 2; cytidine monophosphokinase 2; uridine monophosphate kinase; testis-specific protein TSA903; Uridine monophosphokinase 2; Cytidine monophosphokinase 2; Testis-specific protein TSA903; EC 2.7.1.48
Gene ID	7371
mRNA Refseq	NM_012474
Protein Refseq	NP_036606
MIM	609329
UniProt ID	Q9BZX2

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Chromosome Location	1q23
Function	ATP binding; kinase activity; molecular_function; nucleotide binding; phosphotransferase activity, alcohol group as acceptor; transferase activity; uridine kinase activity
PDB rendering based on 1udw.	