

Recombinant Human UCK1, His-tagged

Cat. No. UCK1-199H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UCK1, 143-273aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	143-273aa
Description	UCK1 is a uridine-cytidine kinase that catalyzes the phosphorylation of uridine and cytidine to uridine monophosphate (UMP) and cytidine monophosphate (CMP) but not the phosphorylation of deoxyribonucleosides or purine ribonucleosides. This enzyme can also phosphorylate uridine and cytidine analogs and uses both ATP and GTP as a phosphate donor. Alternative splicing results in multiple splice variants encoding distinct isoforms. Recombinant human UCK1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	17.5 kDa(152aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MFYSQEIRDM FHLRLFVDTD SDVRLSRRVL RDVRRGRDLE QILTQYTTFV KPAFEEFCLP TKKYADVIIP RGVDNMVAIN LIVQHIQDIL NGDICKWHRG GSNGRSYKRT FSEPGDHPGM LTSGKRSHLE SS
Purity	>80% by SDS - PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	UCK1 uridine-cytidine kinase 1 [Homo sapiens]
Official Symbol	UCK1
Synonyms	UCK1; uridine-cytidine kinase 1; FLJ12255; URK1; UCK 1; uridine monophosphokinase 1; cytidine monophosphokinase 1; RP11-334J6.5;
Gene ID	83549
mRNA Refseq	NM_001135954
Protein Refseq	NP_001129426
MIM	609328
UniProt ID	Q9HA47
Chromosome Location	9q34.1
Pathway	Drug metabolism - other enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Fluoropyrimidine Activity, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem;

Pyrimidine metabolism, organism-specific biosystem;

Function

ATP binding; kinase activity; nucleoside kinase activity; nucleotide binding; phosphotransferase activity, alcohol group as acceptor; transferase activity; uridine kinase activity;

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