

# Recombinant human Uridine-cytidine kinase 2/UCK2 protein

Catalog Number: ATGP0804

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-261aa

**UniProt No.**

Q9BZX2

**NCBI Accession No.**

NP\_036606.2

**Alternative Names**

Uridine-cytidine kinase 2, Uridine monophosphokinase 2, uMPK, uK, TSA903, Testis-specific protein, MOX2 receptor, Cytidine monophosphokinase 2

## PRODUCT SPECIFICATION

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**Molecular Weight**

30.3 kDa (269aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 100mM NaCl, 0.1mM PMSF, 1mM EDTA

**Purity**

&gt; 90% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**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. Recombinant

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human uCK2 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MAGDSEQTLQ NHQQPNGGEP FLIGVSGGTA SGKSSVCAKI VQLLGQNEVD YRQKQVVILS QDSFYRVLTS EQKAKALKGQ  
FNFDHPDAFD NELILKTLKE ITEGKTVQIP VYDFVSHSRK EETVTVPAD VVLFEGILAF YSQEVRDLFQ MKLFVDTDAD  
TRLSRRVLRD ISERGRDLEQ ILSQYITFVK PAFEEFCLPT KKYADVIPR GADNLVAINL IVQHIQDILN GGPSKRQTNG  
CLNGYTPSRK RQASESSSRP H<LEHHHHHH>

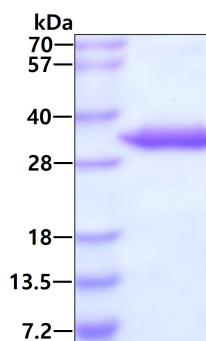
## General References

Smith AJ., et al. (2009) Org Biomol Chem. 7(13):2716-24.

Murata D., et al (2004) Drug Metab Dispos. 32(10):1178-82

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.