Recombinant human Uridine-cytidine kinase 2/UCK2 protein

Catalog Number: ATGP0804

PRODUCT INFORMATION

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

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
> 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

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

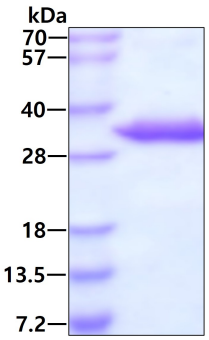
MAGDSEQTLQ NHQQPNGGEP FLIGVSGGTA SGKSSVCAKI VQLLGQNEVD YRQKQVVILS QDSFYRVLTS EQKAKALKGQ FNFDHPDAFD NELILKTLKE ITEGKTVQIP VYDFVSHSRK EETVTVYPAD VVLFEGILAF YSQEVRDLFQ MKLFVDTDAD TRLSRRVLRD ISERGRDLEQ ILSQYITFVK PAFEEFCLPT KKYADVIIPR GADNLVAINL IVQHIQDILN GGPSKRQTNG CLNGYTPSRK RQASESSSRP H<LEHHHHHH>

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.