Recombinant human Uridine-cytidine kinase 1/UCK1 protein

Catalog Number: ATGP2692

PRODUCT INFORMATION

Expression system
E.coli

Domain
143-273aa

UniProt No.
Q9HA47

NCBI Accession No.
NP_113620.1

Alternative Names
URK1, Cytidine monophosphokinase 1, Uridine monophosphokinase 1

PRODUCT SPECIFICATION

Molecular Weight
17.5 kDa (152aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

Purity
> 80% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE, Denatured

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
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.

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Amino acid Sequence

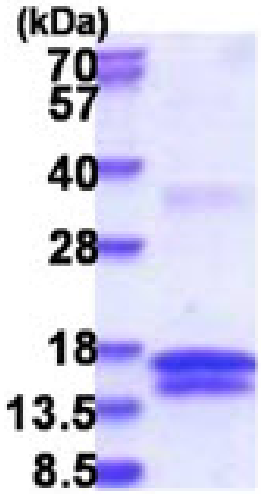
MGSSHHHHHH SSGLVPRGSH MFYSQEIRDM FHLRLFVDTD SDVRLSRRVL RDVRRGRDLE QILTQYTTFV KPAFEEFCLP TKKYADVIIP RGVDNMVAIN LIVQHIQDIL NGDICKWHRG GSNGRSYKRT FSEPGDHPGM LTSGKRSHLE SS

General References

Van Rompay AR. et al. (1999) Mol. Pharmacol. 56:562-569.
Pearman AT. et al. (2001) Life Sci. 69:2361-2370.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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