

Recombinant Human Uridine-cytidine kinase 1(UCK1)

Catalog No: #AP70901

Package Size: #AP70901-1 20ug #AP70901-2 100ug #AP70901-3 1mg

Description

Product Name	Recombinant Human Uridine-cytidine kinase 1(UCK1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-201aaSequence Info:Full Length of Isoform 2
Other Names	Cytidine monophosphokinase 1Uridine monophosphokinase 1
Accession No.	Q9HA47
Calculated MW	38.8 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MASAGGEDCESPAEADRP HQRPFLIGVSGGTASGKSTVCEKIMELLGQNEVEQRQRKVILSQDRFYKVLTA AEQKAKALKGQYNFDHPDAFDNDLMHRTLKNIVEGKTVEVPTYDFVTHSRLPETTVVYPADVVLFEGLVFYS QEIRDMFHLRLFVDTSDVRLSRRDKEVCRCDHPARSGQYGCHQPDRAAHPGHSEW
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Phosphorylates uridine and cytidine to uridine monophosphate and cytidine monophosphate. Does not phosphorylate deoxyribonucleosides or purine ribonucleosides. Can use ATP or GTP as a phosphate donor. Can also phosphorylate cytidine and uridine nucleoside analogs such as 6-azauridine, 5-fluorouridine, 4-thiouridine, 5-bromouridine, N(4)-acetylcytidine, N(4)-benzoylcytidine, 5-fluorocytidine, 2-thiocytidine, 5-methylcytidine, and N(4)-anisoylcytidine.

References

Phosphorylation of uridine and cytidine nucleoside analogs by two human uridine-cytidine kinases.Van Rompay A.R., Norda A., Linden K., Johansson M., Karlsson A.Mol. Pharmacol. 59:1181-1186(2001)Research Topic:Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only and is not intended for use in humans or animals.