

Recombinant E. coli udp Protein, 1-253aa, N-6×His tagged

Cat. No. Udp-782E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E. coli uDP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	E.coli
Source	E.coli
ProteinLength	1-253aa
Description	Catalyzes the reversible phosphorylytic cleavage of uridine to uracil and ribose-1-phosphate. Shows weak activity towards deoxyuridine and thymidine. The produced molecules are then utilized as carbon and energy sources or in the rescue of pyrimidine bases for nucleotide synthesis (Probable).
Form	Liquid
Bio-activity	> 20,000 pmol/min/μg, and is defined as the amount of enzyme that catalyze the reduction 1.0 pmole of uridine presence of phosphate per minute at pH 7.5 at 25 centigrade.
Molecular Mass	29.3 kDa (273aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHSSGLVPRGSHMSKSDVFHLGLTKNDLQGATLAIVPGDPDRVEKIAA LMDKPVKLAHREFTTWRAELDGKPVIVCSTGIGGPSTSI AVEELAQLGIRTF LRIGTT GAIQPHINVGDLVTTASVRLDGASLHFAPLEFPAVADFECTTALVEAAKSIGATTHV

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	GVTASSDTFYPGQERYDTYSGRVVRHFKGSMEEWQAMGVMNYEMESATLLTMCA SQGLRAGMVAGVIVNRTQQEIPNAETMKQTESHAVKIVVEAARLL
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Bradford assay)
Storage Buffer	20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl
References	1. Burling F.T., et al. (2003) Acta Crystallogr. 59:73-76 2. Walton L., et al (1989) Nucleic Acids Res. 17(16):6741.

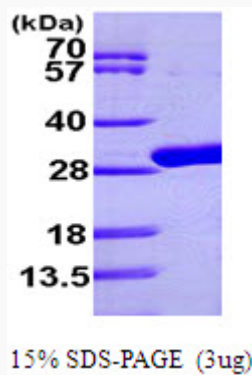
GENE INFORMATION

Gene Name	udp uridine phosphorylase [Escherichia coli str. K-12 substr. MG1655]
Official Symbol	udp
Synonyms	udp; uridine phosphorylase; ECK3825; uridine phosphorylase; EC 2.4.2.3
Gene ID	948987
Protein Refseq	NP_418275
UniProt ID	P12758

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SDS-PAGE

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