

## Recombinant E. coli udp Protein, 1-253aa, N-6xHis tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant E. coli uDP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
<b>Species</b>	E.coli
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-253aa
<b>Description</b>	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).
<b>Form</b>	Liquid
<b>Bio-activity</b>	> 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.
<b>Molecular Mass</b>	29.3 kDa (273aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHSSGLVPRGSHMSKSDVFHLGLTKNDLQGATLAIVPGDPDRVEKIAA LMDKPVKLASHREFTTWRAELDGKPVIVCSTGIGGPSTSIAVEELAQLGIRTFRLRIGTT GAIQPHINVGDLVTTASVRLDGASLHFAPLEFPVADFECTTALVEAAKSIGATTHV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GVTASSDTFYPGQERYDTYSGRVVRFKGSMEEWQAMGVMNYEMESATLLTMCA  
SQGLRAGMVAGVIVNRTQQEIPNAETMKQTESHAVKIVVEAARRLL

**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](#)

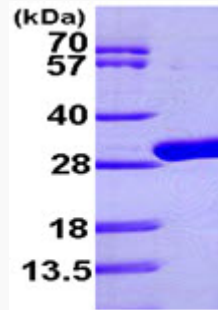
**UniProt ID** [P12758](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SDS-PAGE



15% SDS-PAGE (3ug)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA