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## Product Data Sheet

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Product Name: UPP1 Human  
 Cat. No.: GP22389  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	UP; UPASE; UPP; UrdPase 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAATGANA EK AESHNDCPVR LLNPNI AKMK EDILYHFNL T SRHNFALF GDVKFVCVGG SPSRMKAFIR CVGAELGLDC PGRDYPNICA GTDRYAMYKV GPVLSVSHGM GIPSISIMLH ELIKLLYYAR CSNVTIIRIG TSGGIGLEPG TVVITEQAVD TCFKAEFEQI VLGKRVIRKT DLNKKLVQEL LLCSAELSEF TTVVGNTMCT LDFYEGQGRL DGALCSYTEK DKQAYLEAAY AAGVRNIEME SSVFAAMCSA CGLQAAVVCV TLLNRLEGDQ ISSPRNVLSE YQQR PQRLVS YFIKKLSKA.		
Formulation	UPP1 protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 0.2M NaCl and 40% glycerol.		

### Introduction

UPP1 catalyzes the reversible phosphorylytic cleavage of uridine and deoxyuridine to uracil and ribose- or deoxyribose-1-phosphate which are used as carbon and energy sources or in the release of pyrimidine bases for nucleotide synthesis. UPP1 is part of the family of glycosyltransferases, specifically the pentosyltransferases. Pyrimidine nucleoside phosphorylases add ribose or deoxyribose to pyrimidine bases to form nucleosides that can be incorporated into RNA or DNA.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

UPP1 Human Recombinant protein produced in E.Coli is a single, non-glycosylated,

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polypeptide chain containing 330 amino acids (1-310) and having a molecular mass of 29.3 kDa. UPP1 is fused to a 20 amino acid His Tag at N-terminus and is purified by proprietary chromatographic techniques.

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