
Product Data Sheet

Product Name: UPP1 E.coli
 Cat. No.: GP22391
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	UPASE; UDRPASE; UPP; UDP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSKSDVFHLG LTKNDLQGAT LAIVPGDPDR VEKIAALMDK PVKLASHREF TTWRAELDGK PVIVCSTGIG GPSTSIAVEE LAQLGIRTFLL RIGTTGAIQP HINVGDVLT TASVRLDGAS LHFAPLEFPA VADFECTTAL VEAAKSIGAT THVGV TASST TFYPGQERYD TYSGRVVRHF KGSMEEWQAM GVMNYEMESA TLLTMCASQG LRAMVAGVI VNRTQQEIPN AETMKQTESH AVKIVVEAAR RLL.		
Formulation	UPP1 solution (1mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50mM NaCl and 10% 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 E.Coli Recombinant protein produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 273 amino acids (1-253) and having a molecular mass of

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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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