

## UPP1 E.coli

**Description:**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 29.3 kDa. UPP1 is fused to a 20 amino acid His Tag at N-terminus and is purified by proprietary chromatographic techniques.

**Catalog #:**ENPS-265

For research use only.

**Synonyms:**UPASE, UDRPASE, UPP, UDP.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MSKSDVFHLG LTKNDLQGAT  
LAIVPGDPDR VEKIAALMDK PVKLASHREF TTWRAELDGK PVIVCSTGIG GPSTSIABEE  
LAQLGIRTFI RIGTTGAIQP HINVGDLVT TASVRLDGAS LHFAPLEFPA VADFECTTAL  
VEAAKSIGAT THVGVTASSD TFYPGQERYD TYSGRVVRHF KGSMEEWQAM GVMNYEMESA  
TLLTMCASQG LR

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

UPP1 solution (1mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50mM NaCl and 10% glycerol.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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