Recombinant Human Uridine Phosphorylase 1, His-tagged

Cat. No. UPP1-2802H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UPP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 36 kDa (330aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	Uridine phosphorylase 1, also known as UPP1 catalyses the reversible phosphorolysis of uridine to uracil. The reaction products are then utilized as carbon and energy sources, or in the rescue of pyrimidine bases for nucleotide synthesis. The expression levels and the enzymatic activity of UPP1 are higher in human solid tumors than in adjacent normal tissues. In addition, UPP1 controls the homeostatic regulation of uridine concentration in plasma and tissues and plays a role in the intracellular activation of 5-fluorouracil.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAATGANAEK AESHNDCPVR LLNPNIAKMK EDILYHFNLT TSRHNFPALF GDVKFVCVGG SPSRMKAFIR CVGAELGLDC PGRDYPNICA GTDRYAMYKV GPVLSVSHGM GIPSISIMLH ELIKLLYYAR CSNVTIIRIG TSGGIGLEPG TVVITEQAVD TCFKAEFEQI VLGKRVIRKT DLNKKLVQEL LLCSAELSEF TTVVGNTMCT LDFYEGQGRL DGALCSYTEK DKQAYLEAAY AAGVRNIEME SSVFAAMCSA CGLQAAVVCV TLLNRLEGDQ ISSPRNVLSE YQQRPQRLVS YFIKKKLSKA

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Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 200mM NaCl.
Concentration	0.25 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	UPP1 uridine phosphorylase 1 [Homo sapiens]
Synonyms	UPP1; uridine phosphorylase 1; UPase 1; urdPase 1; OTTHUMP00000159566; EC 2.4.2.3;uridine phosphorylase; UP; UPASE; UPP; UDRPASE
Gene ID	7378
mRNA Refseq	NM_003364
Protein Refseq	NP_003355
MIM	191730
UniProt ID	Q16831
Chromosome Location	7p12.3
Pathway	Drug metabolism - other enzymes; Metabolic pathways; Pyrimidine metabolism

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Function	uridine phosphorylase activity

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