

Recombinant Human UMPS Protein, His-tagged

Cat. No. UMPS-212H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UMPS(1-480aa) fused with His tag at C-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-480aa
Description	UMPS, also known as uridine 5'-monophosphate synthase, is a bifunctional enzyme catalyzing the last two steps of de novo pyrimidine biosynthesis. It is an indispensable component in this metabolic pathway and is a target for antimalarial and antitumor drugs. Its expression in colorectal carcinoma tissues is not correlated with the toxicities of 5-FU-based regimen, but It in the normal tissues can help predict the toxicities associated with 5-FU.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4).
Molecular Mass	53kDa (486aa) 50-70kDa (SDS-PAGE under reducing conditions)
AA Sequence	MAVARAALGP LVTGLYDVQA FKFGDFVLKS GLSSPIYIDL RGIVSRPRL SQVADILFQT AQNAGISFDT VCGVPYTALP LATVICSTNQ IPMLIRKET KDYGTKRLVE GTINPGETCL IEDVVTSGS SVLETVEVLQ KEGLKVTDAL VLLDREQGGK DKLQAHGIRL HSVCTLSKML EILEQQKKVD AETVGRVKRF IQENVFVAAN HNGSPLSIKE APKELSFGAR

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AELPRIHPVA SKLLRLMQKK ETNLCLSADV SLARELLQLA
 DALGPSICML KTHVDILNDF TLDVMKELIT LAKCHEFLIF EDRKFADIGN
 TVKKQYEGGI FKIASWADLV NAHVVPGSGV VKGLQEVGLP
 LHRGCLLIAE MSSTGSLATG DYTRAAVRMA EEHSEFVVG F ISGSRVSMKP
 EFLHLTPGVQ LEAGGDNLGQ QYNSPQEVIG KRGSDIIIVG
 RGIISAADRL EAAEMYRKAA WEAYLSRLGV HHHHHH

Purity > 95% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25mg/ml (determined by Absorbance at 280nm)

GENE INFORMATION

Gene Name [UMPS uridine monophosphate synthetase \[Homo sapiens \]](#)

Official Symbol [UMPS](#)

Synonyms UMPS; uridine monophosphate synthetase; uridine 5-monophosphate synthase; orotate phosphoribosyl transferase and orotidine 5 decarboxylase; OPRTase; OMPdecase; UMP synthase; orotate phosphoribosyltransferase; orotidine 5-phosphate decarboxylase; OPRT;

Gene ID [7372](#)

mRNA Refseq [NM_000373](#)

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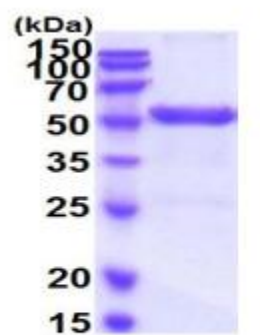
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Protein Refseq NP_000364

MIM 613891

UniProt ID P11172



15% SDS-PAGE (3ug)

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