

Recombinant Human UMPS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UMPS-3314H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UMPS MS Standard C13 and N15-labeled recombinant protein (NP_000364) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a uridine 5'-monophosphate synthase. The encoded protein is a bifunctional enzyme that catalyzes the final two steps of the de novo pyrimidine biosynthetic pathway. The first reaction is carried out by the N-terminal enzyme orotate phosphoribosyltransferase which converts orotic acid to orotidine-5'-monophosphate. The terminal reaction is carried out by the C-terminal enzyme OMP decarboxylase which converts orotidine-5'-monophosphate to uridine monophosphate. Defects in this gene are the cause of hereditary orotic aciduria. Alternate splicing results in multiple transcript variants.
Molecular Mass	52.2 kDa
AA Sequence	MAVARAALGPLVTGLYDVQAFKFGDFVLKSGLSPIYIDLRGIVSRPRLLSQVADILFQ TAQNAGISFDTVCGVPYTALPLATVICSTNQIPMLIRRKETKDYGTKRLVEGTINPGET CLIIEDVVTSGSSVLETVEVLQKEGLKVTDIAVLLDREQGGKDKLQAHGIRLHSVCTLS KMLEILEQQKKVDAETVGRVKRFIQENVFVAANHNGSPLSIKEAPKELSFGARAEPL RIHPVASKLLRLMQKKETNLCLSADVSLARELLQLADALGPSICMLKTHVDILNDFTLD

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VMKELITLAKCHEFLIFEDRKFDIGNTVKKQYEGGIFKIASWADLVNAHVVPGSGVV
KGLQEVGLPLHRGCLLIAEMSSTGSLATGDYTRAAVRMAEEHSEFVVGFIGSRVS
MKPEFLHLTPGVQLEAGGDNLGQQYNPQEVIGKRGSDIIVGRGIISAADRLEAAEM
YRKAWEAYLSRLGVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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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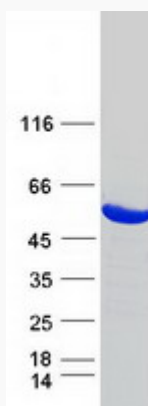
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Protein Refseq NP_000364

MIM 613891

UniProt ID P11172

SDS-PAGE



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