

Active Recombinant Full Length Human UMPS Protein, C-Flag-tagged

Cat. No. UMPS-339HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human UMPS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	UMPS activity is verified in a bioassay
Molecular Mass	52 kDa
AA Sequence	MAVARAALGPLVTGLYDVQAFKFGDFVLKSGLSPIYIDLRGIVSRPRLLSQVADILFQ TAQNAGISFDT VCGVPYTALPLATVICSTNQIPMLIRRKETKDYGTKRLVEGTINPGE

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TCLIIEDVVTSGSSVLETVEVLQ KEGLKVTD AIVLLDREQGGKDKLQAHGIRLHSVCT
LSKMLEILEQQKKVDAETVGRVKRFIQENVFVAAN HNGSPLSIKEAPKELSFGARAE
LPRIHPVASKLLRLMQKKETNLCLSADVSLARELLQLADALGPSICML KTHVDILNDF
TLDVMKELITLAKCHEFLIFEDRKFDIGNTVKKQYEGGIFKIASWADLVNAHVVPGS
GV VKGLQEVGLPLHRGCLLIAEMSSTGSLATGDYTRAAVRMAEEHSEFVVGFISGS
RVSMKPEFLHLTPGVQ
LEAGGDNLGQQYNPQEVIGKRGSDIIIVGRGIISAADRLEAAEMYRKAWEAYLSRL
GVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism
Full Length	Full L.

GENE INFORMATION

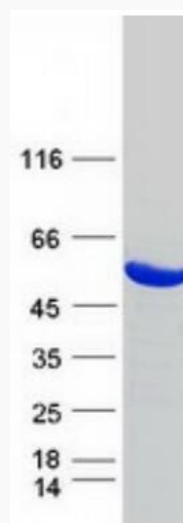
Gene Name [UMPS uridine monophosphate synthetase \[Homo sapiens \(human\) \]](#)

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Official Symbol	UMPS
Synonyms	OPRT
Gene ID	7372
mRNA Refseq	NM_000373.4
Protein Refseq	NP_000364.1
MIM	613891
UniProt ID	P11172



Coomassie blue staining of purified UMPS protein.