

Product datasheet for **TP301324L**

UMPS (NM_000373) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human uridine monophosphate synthetase (UMPS), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201324 protein sequence Red =Cloning site Green =Tags(s)

MAVARAALGPLVTGLYDVQAFKFGDFVLKSGLSPIYIDLRGIVSRPRLLSQVADILFQTAQNAGISFDT
VCGVPYALPLATVICSTNQIPMLIRRKETKDYGTKRLVEGTINPGETCLIEDVVTSGSSVLETVEVLQ
KEGLKVTDAIVLLDREQGGKDKLQAHGIRLHSVCTLSKMLEILEQQKKVDAETVGRVKRFIQENVFVAAN
HNGSPLSIKEAPKELSFGARAELPRIHPVASKLLRLMQKKETNLCLSADVSLARELLQLADALGPSICML
KTHVDILNDFTLDVMKELITLAKCHEFLIFEDRKFADIGNTVKKQYEGGIFKIASWADLVNAHVVPGSGV
VKGLQEVGLPLHRGCLLIAEMSSTGSLATGDYTRAAVRMAEEHSEFVVGFIGSRVSMKPEFLHLTPGVQ
LEAGGDNLGQQYNPQEVIGKRGSDIIVGRGIISAADRLEAAEMYRKAWEAYLSRLGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	52 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	UMPS activity is verified in a bioassay:
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_000364](#)

Locus ID: 7372

UniProt ID: [P11172](#), [A8K5J1](#)

RefSeq Size: 6738

Cytogenetics: 3q21.2

RefSeq ORF: 1440

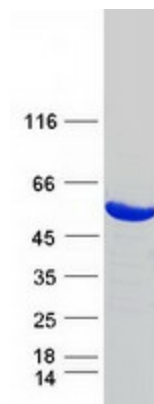
Synonyms: OPRT

Summary: 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. [provided by RefSeq, Mar 2010]

Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - other enzymes, Metabolic pathways, Pyrimidine metabolism

Product images:



Coomassie blue staining of purified UMPS protein (Cat# [TP301324]). The protein was produced from HEK293T cells transfected with UMPS cDNA clone (Cat# [RC201324]) using MegaTran 2.0 (Cat# [TT210002]).