

Product datasheet for **AR50612PU-N**

UMPS (1-480, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	UMPS (1-480, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> MAVARAALGP LVTGLYDVQA FKFGDFVLKS GLSSPIYIDL RGIVSRPRLI SQVADILFQT AQNAGISFDT VCGVPYTALP LATVICSTNQ IPMLIRRKET KDYGTKRLVE GTINPGETCL IEDVVTSGS SVLETVEVLQ KEGLKVTDAL VLLDREQGGK DKLQAHGIRL HSVCTLSKML EILEQQKKVD AETVGRVKRF IQENVFVAAN HNGSPLSIKE APKELSFGAR AELPRIHPVA SKLLRLMQKK ETNLCLSADV SLARELLQLA DALGPSICML KTHVDILNDF TLDVMKELIT LAKCHEFLIF EDRKFADIGN TVKKQYEGGI FKIASWADLV NAHVVPGSGV VKGLQEVGLP LHRGCLLIAE MSSTGSLATG DYTRAAVRMA EEHSEFVVG F ISGSRVSMKP EFLHLTPGVQ LEAGGDNLGQ QYNSPQEVIG KRGSIIIIVG RGIISAADRL EAAEMYRCAA WEAYLSRLGV
Tag:	His-tag
Predicted MW:	54.3 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 20% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant Human UMPS protein, fused to His-tag at N-terminus, was expressed in E.coli.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_000364</u>
Locus ID:	7372
UniProt ID:	<u>P11172</u> , <u>A8K5J1</u>
Cytogenetics:	3q21.2



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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:

