

Product information

UMPS, 1-480aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3659

Full name: Uridine 5'-monophosphate synthase

NCBI Accession No.: NP_000364

Synonyms: UMPS, OPRT

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. Recombinant human UMPS, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4).

Molecular Weight: 53kDa (486aa)

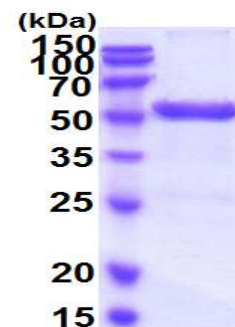
50-70kDa (SDS-PAGE under reducing conditions)

Predicted N terminal: Met1

Purity: > 95% by SDS - PAGE.

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

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

Sequences of amino acids:

MAVARAALGP LVTGLYDVQA FKFGDFVLKS GLSSPIYIDL RGI VSRPRL SQVADILFQT AQNAGISFDT VCGVPYTALP LATVICSTNQ
 IPMLIRRKET KDYGTKRLVE GTINPGETCL I IEDVVTSGS SVLETVEVLQ KEGLKVTDAI VLLDREQQGK DKLQAHGIRL HSVCTLSKML
 EILEQQKKVD AETVGRVKRF IQENVFVAAN HNGSPLSIKE APKELSFGAR AELPRIHPVA SKLLRLMQKK ETNLCLSADV SLARELLQLA
 DALGPSICML KTHVDILNDF TLDVMKELIT LAKCHEFLIF EDRKFADIGN TVKKQYEGGI FKIASWADLV NAHVVPGSGV VKGLQEVGLP
 LHRGCLLIAE MSSTGSLATG DYTRAAVRMA EEHSEFVVGF ISGSRVSMKP EFLHLTPGVQ LEAGGDNLGQ QYNSPQEVIG KRGSDIIIVG
 RGIISAADRL EAAEMYRKAA WEAYLSRLGV HHHHHH

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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General references:

Zhang Y., *et al.* (2013) *J Biol Chem.* 288:34746-34754.

Dong Q., *et al.* (2012) *Nan Fang Yi Ke Da Xue Xue Bao.* 32:1179-1181.

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

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Manufactured for:

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