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32-6945: UMPS Human, Sf9

Alternative Name :	Uridine Monophosphate Synthetase, UMP Synthase, Orotate Phosphoribosyl Transferase And Orotidine-5-Decarboxylase, Orotidine 5-Phosphate Decarboxylase, Orotate Phosphoribosyltransferase, Uridine 5-Monophosphate Synthase, OMPdecase, OPRTase, OPRT, Uridine 5'-monophosphate synthase, UMP synthase, Orotate phosphoribosyltransferase, Orotidine 5'-phosphate decarboxylase, ODC.

Description

Source: Sf9, Baculovirus cells.
Sterile Filtered clear solution.
Uridine 5'-monophosphate synthase (UMPS), is a bifunctional enzyme that catalyzes the ultimate two steps of the de novo pyrimidine biosynthetic pathway. UMPS in eukaryotes links the orotate phosphoribosyltransferase and the orotidine-5Â'-monophosphate (OMP) decarboxylase activities into a single protein. The harmony of these 2 enzymes is assumed to be stabilized the catalytic centers as a result of the low molar concentration of the protein in mammalian cells. Mutations in UMPSÂ are the reason of inherited orotic aciduria disease.
UMPS Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 486 amino acids (1-480 a.a.) and having a molecular mass of 53kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). UMPS is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	UMPS protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4).
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MAVARAALGP LVTGLYDVQA FKFGDFVLKS GLSSPIYIDL RGIVSRPRLL SQVADILFQT AQNAGISFDT VCGVPYTALP LATVICSTNQ IPMLIRRKET KDYGTKRLVE GTINPGETCL IIEDVVTSGS SVLETVEVLQ KEGLKVTDAI VLLDREQGGK 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.