
Product Data Sheet

Product Name: UMPS Human, Sf9

Cat. No.: GP22386

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms 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.

Amino Acid Sequence
 MAVARAALGP LVTGLYDVQA FKFGDFVLKS GLSSPIYIDL RGIVSRPRLL
 SQVADILFQT AQNAGISFDT VCGVPYTALP LATVICSTNQ IPMLIRRKET
 KDYGTKRLVE GTINPGETCL IIEDVVTSGS SVLETVEVLQ KEGLKVTDAI
 VLLDREQGGK DKLQAHGIRL HSVCTLSKML EILEQQKKVD AETVGRVKRF
 IQENVFVAAN HNGSPLSIKE APKELSGAR AELPRIHPVA SKLLRLMQKK
 ETNLCLSADV SLARELLQLA DALGPSICML KTHVDILNDF TLDVMKELIT
 LAKCHEFLIF EDRKFADIGN TVKKQYEGGI FKIASWADLV NAHVVPGSGV
 VKGLQEVLGLP LHRGCLLIAE MSSTGSLATG DYTRAAVRMA EEHSEFVVG
 ISGSRVSMKP EFLHLTPGVQ LEAGGDNLGQ QYNPQEVIG KRGSIIIIVG
 RGIISAADRL EAAEMYRCAA WEAYLSRLGV HHHHHH.

Formulation UMPS protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4).

Introduction

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-5'-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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

of the protein in mammalian cells. Mutations in UMPS are the reason of inherited orotic aciduria disease.

Stability

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA