

UMPS Human

Description:UMPS Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 500 amino acids (1-480 a.a) and having a molecular mass of 54.3kDa.UMPS is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:ENPS-670

For research use only.

Synonyms:OPRT, Uridine 5'-monophosphate synthase, UMP synthase, Orotate phosphoribosyltransferase , OPRT, OPRTase, Orotidine 5'-phosphate decarboxylase , ODC, OMPdecase.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered clear solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MAVARAALGP LVTGLYDVQA
FKFGDFVLKS GLSSPIYIDL RGIVSRPRLS SQVADILFQT AQNAGISFDT VCGVPYTALP
LATVICSTNQ IPMLIRRKET KDYGTKRLVE GTINPGETCL IEDVVTSGS SVLETVEVLQ
KEGLKVTDAI VLLDREQGGK DKLQAHGIRL HSVCTLSKML EILEQKKVD AETVGRVKRF
IQENVFVAAN HN

Purity:Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The UMPS solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2M Urea and 20% glycerol.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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 of the protein in mammalian cells. mutations in this gene are the reason of inherited orotic aciduria disease.

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