

本公司提供的电子版说明书仅供参考，实验请以收到的纸质手册为准。

UMPS, 1-480aa

产品货号: TP04428

第三版

别名:Uridine 5'-monophosphate synthase, OPRT.

描述:Uridine 5'-monophosphate synthase, also known as UMPS, is a bifunctional enzyme that catalyzes the final two steps of the de novo pyrimidine biosynthetic pathway. Unlike prokaryotes, UMPS in eukaryotes combines the orotate phosphoribosyltransferase and the orotidine-5' -monophosphate (OMP) decarboxylase activities into a single protein. The union of these two enzymes is thought to stabilize the catalytic centers due to the low molar concentration of the protein in mammalian cells. Defects in this gene are the cause of hereditary orotic aciduria. Recombinant human UMPS protein, fused to His-tag at N-terminus, was expressed in E.coli.

配方:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 20% glycerol

分子量:54.3 kDa (500aa)

序列:

```
MGSSHHHHHSSGLVPRGSHMAVARAALGPLVTGLYDVQAFKFGDFVLKSGLSPIYIDLRGIVSRPRLLSQVADILFQTA
QNAGISFDTVCGVPYTALPLATVICSTNQIPMLIRRKETKDYGTKRLVEGTINPGETCLIIEDVVTSGSSVLETVEVLQKEGL
KVTDAIVLLDREQGGKDKLQAHGIRLHSVCTLSKMLEILEQQKKVDAETVGRVKRFIQENVFVAANHNGSPLSIKEAPKE
LSFGARAELPRIHPVASKLLRLMQKKNLCLSLADVSLARELLQLADALGPSICMLKTHVDILNDFTLDVMKELITLAKCHE
FLIFEDRKFADIGNTVKKQYEGGIFKIASWADLVNAHVVPVGGVVKGLQEVGLPLHRGCLLIAEMSSTGSLATGDYTRAAV
RMAEEHSEFVVGFISGRVSMKPEFLHLTPGVQLEAGGDNLGQQYNPQEVIGKRGSDIIIVGRGIISAADRLEAAEMYRKA
AWEAYLSRLGV
```

纯度:> 95% by HPLC

浓度:1 mg/ml (determined by Bradford assay)

内毒素:<1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 ° C 保存 (1-2 周). 长期保存在-20 ° C 或者-70 ° C. 避免反复冻融.