GMPR, 1-345aa, Human, His tag, E.coli

Cat.NO.: TP02281

3th Edition

Synonyms: Guanosine monophosphate reductase, GMPR1.

Description:GMPR, also known as guanosine monophosphate reductase, catalyzes the irreversible NADPHdependent deamination of GMP to IMP. It functions in the conversion of nucleobase, nucleoside and nucleotide derivatives of G to A nucleotides, and in maintaining the intracellular balance of A and G nucleotides. Recombinant human GMPR protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

Molecular Weight:39.5 kDa (365aa) confirmed by MALDI-TOF

Sequences:
MGSSHHHHHHSSGLVPRGSHMPRIDADLKLDFKDVLLRPKRSSLKSRAEVDLERTFTFRNSKQTYSGIPIIVANMDT
VGTFEMAAVMSQHSMFTAIHKHYSLDDWKLFATNHPECLQNVAVSSGSGQNDLEKMTSILEAVPQVKFICLDVANG
YSEHFVEFVKLVRAKFPEHTIMAGNVVTGEMVEELILSGADIIKVGVGPGSVCTTRTKTGVGYPQLSAVIECADSAH
GLKGHIISDGGCTCPGDVAKAFGAGADFVMLGGMFSGHTECAGEVIERNGRKLKLFYGMSSDTAMNKHAGGVAE
YRASEGKTVEVPYKGDVENTILDILGGLRSTCTYVGAAKLKELSRRATFIRVTQQHNTVFS

Purity:> 95% by HPLC

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

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

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.