

Recombinant Human Guanosine Monophosphate Reductase, His-tagged

Cat. No. GMPR-1926H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanGMPR protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography.
Species	Human
Description	GMPR,also known as guanosine monophosphate reductase, catalyzes the irreversibleNADPH-dependent deamination of GMP to IMP. It functions in the conversion ofnucleobase, nucleoside and nucleotide derivatives of G to A nucleotides, andin maintaining the intracellular balance of A and G nucleotides.
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT.
Molecular Weight	39.5 kDa(365aa) confirmed by MALDI-TOF.
Purity	> 95%by SDS-PAGE
Concentration	1 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MPRIDADLKL DFKDVLLRPK RSSLKSR AEV DLERTFTFRN SKQTYSGIPIIVANMDTVGT FEMA AVMSQH SMFTAIHKHY SLDDWKLFAT NHPECLQNVA VSSGSGQNDL EKMTSILEAVPQVKFICLDV ANGYSEHFVE FVKLVRAKFP EHTIMAGNVV TGEMVEELIL SGADIIKGVG GPGSVCTTRTKTGVGYPQLS AVIECADSAH GLKGHIISDG GCTCPGDVAK

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AFGAGADFVM LGGMFSGHTE CAGEVIERNRKLKLFYGMS SDTAMNKHAG
GVAEYRASEG KTVEVPYKGD VENTILDILG GLRSTCTYVG
AAKLKELSRRAFIRVTQQH NTVFS

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

Metabolism; Metabolism of nucleotides;Purine metabolism; Purine salvage

GENE INFORMATION

Gene Name

GMPR guanosine monophosphatereductase [Homo sapiens]

Official Symbol

GMPR

Synonyms

GMPR; guanosine monophosphate reductase;GMPR1; GMP reductase 1; guanine monophosphate reductase; guanosinemonophosphate reductase 1; guanosine 5"-monophosphate oxidoreductase 1; EC1.7.1.7

Gene ID

2766

mRNA Refseq

NM_006877

Protein Refseq

NP_006868

MIM

139265

UniProt ID

P36959

**Chromosome
Location**

6p23

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Function

GMP reductase activity; metal ion binding; oxidoreductase activity

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