

Recombinant human GMPR protein

Catalog Number: ATGP1410

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-345aa

UniProt No.

P36959

NCBI Accession No.

AAH08281

Alternative Names

Guanosine monophosphate reductase, GMPR1

PRODUCT SPECIFICATION

Molecular Weight

39.5 kDa (365aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

GMPR, also known as guanosine monophosphate reductase, catalyzes the irreversible NADPH-dependent 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.

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Amino acid Sequence

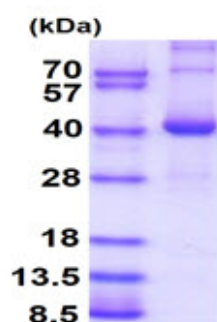
MGSSHHHHHH SSSLVPRGSH MPRIDADLKL DFKDVLLRPK RSSLKSRAEV DLERTFTFRN SKQTYSGIPI IVANMDTVGT
FEMAAVMSQH SMFTAIHKHY SLDDWKL FAT NHPECLQ NVA VSSGSGQNDL EKMTSILEAV PQVKFICLDV ANGYSEHFVE
FVKLVRAKFP EHTIMAGNVV TGEMVEELIL SGADIIKGVV GPGSVCTTRT KTG VGY PQLS AVIECADSAH GLKGHIISDG
GCTCPGDVAK AFGAGADFVM LGGMFSGHTE CAGEVIERNG RKLKLFY GMS SDTAMNKHAG GVAEYRASEG
KTVEVPYKGD VENTILDILG GLRSTCTYVG AAKLKELSRR ATFIRVTQQH NTVFS

General References

Yoshida A., et al. (1990) Cell. 62:11-12
Kanno H., et al. (1989) Cell. 58:595-606

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)