

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

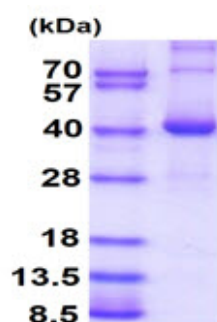
MGSSHHHHHH SSSLVPRGSH MPRIDADLKL DFKDVLLRPK RSSLKSRAEV DLERTFTFRN SKQTYSGIPI IVANMDTVGT
FEMAAVMSQH SMFTAIHKHY SLDDWKL FAT NHPECLQ NVA VSSGSGQNDL EKMTSILEAV PQVKFICLDV ANGYSEHFVE
FVKLVRAKFP EHTIMAGNVV TGEMVEELIL SGADIKVG V GPGSVCTTRT KTG VGY PQLS AVIECADSAH GLKGHIISDG
GCTCPGDVAK AFGAGADFVM LGGMFSGHTE 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)