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Recombinant human GMPR2 protein

Catalog Number: ATGP0704

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-348aa

UniProt No.
Q9P2T1

NCBI Accession No.
NP_001002002

Alternative Names
Guanosine monophosphate reductase 2, GMP reductase 2, Guanosine 5'-monophosphate oxidoreductase 2

PRODUCT SPECIFICATION

Molecular Weight
40 kDa (368aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

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
Guanosine monophosphate reductase 2, also known as GMPR2, is the only known metabolic step by which guanine nucleotides can be converted to the pivotal precursor of both adenine and guanine nucleotides. GMPR2 catalyzes the irreversible and NADPH-dependent reductive deamination of GMP to IMP, and plays a critical role in re-utilization of free intracellular bases and purine nucleosides. Recombinant human GMPR2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

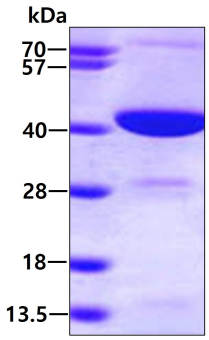
<MGSSHHHHHH SSGLVPRGSH> MPHIDNDVKL DFKDVLLRPK RSTLKSRSEV DLTRSFSFRN SKQTYSGVPI IAANMDTVGT FEMAKVLCKF SLFTAVHKHY SLVQWQEFAG QNPDCLEHLA ASSGTGSSDF EQLEQILEAI PQVKYICLDV ANGYSEHFVE FVKDVRKRFP QHTIMAGNVV TGEMVEELIL SGADIIKVGI GPGSVCTTRK KTGVGYPQLS AVMECADAAH GLKGHIISDG GCSCPGDVAK AFGAGADFVM LGGMLAGHSE SGGELIERDG KKYKLFYGMS SEMAMKKYAG GVAEYRASEG KTVEVPFKGD VEHTIRDILG GIRSTCTYVG AAKLKELSRR TTFIRVTQQV NPIFSEAC

General References

Li J., et al. (2006) J Mol Biol. 355(5):980-8.
Denq Y., et al. (2002) Int J Biochem Cell Biol. 34(9):1035-50.

DATA

SDS-PAGE



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