

Recombinant Human Guanosine Monophosphate Reductase 2, His-tagged

Cat. No. GMPR2-788H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human GMPR2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW =40 kDa (368aa), confirmed by MALDI-TOF.

Species

Human

Source

E.coli

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.

Sequences Of Amino Acids

MGSSHHHHHH SSGLVPRGSH MPHIDNDVKL DFKDVLLRPK RSTLKSRSSEV
DLTRSFSEFRN SKQTYSGVPI IAA NMDTVGT FEMAKVLCKF SLFTAVHKHY
SLVQWQEFAG QNPDCLEHLA ASSGTGSSDF EQLEQILEAI PQVKYICLDV
ANGYSEHFVE FVKDVRKRFP QHTIMAGNVV TGEMVEELIL SGADIIVGVI
GPGSVCTTRK KTGVGYPQLS AVMECADA AH GLKGHIISDG GCSCPGDVAK
AFGAGADFVM LGGMLAGHSE SGGELIERDG KKYKLFYGM S SEMAMKKYAG
GVAEYRASEG KTVEVPFKGD VEHTIRDILG GIRSTCTYVG AAKLKELSRR
TTFIRVTQQV NPIFSEAC

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.
Concentration	1mg/ml (determined by Bradford assay).
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.

GENE INFORMATION

Gene Name	GMPR2 guanosine monophosphate reductase 2 [Homo sapiens]
Synonyms	GMPR2; guanosine monophosphate reductase 2; MGC830; MGC15084; GMP reductase 2; guanosine monophosphate reductase isolog; guanosine 5"-monophosphate oxidoreductase 2; EC 1.7.1.7
Gene ID	51292
mRNA Refseq	NM_001002000
Protein Refseq	NP_001002000
MIM	610781
UniProt ID	Q9P2T1
Chromosome Location	14q12
Pathway	Purine metabolism

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Function

GMP reductase activity; metal ion binding; oxidoreductase activity

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