

Guanosine monophosphate reductase 2

Cat. No. CBCRY17 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source	E.coli
Background	Guanosine monophosphate reductase (GMPR) 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. Plays a role in modulating cellular differentiation.
Protein Classification	Oxidoreductase
Structure Weight	161477.73 Da
Polymer	1
Molecule	GMP reductase 2
Chain Length	366 amino acids
PDB ID	2A7R
MMDB ID	37032
Method	X-Ray Diffraction

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Resolution	3.0 Å
Ligand Chemical Component	guanosine-5'-monophosphate; sulfate ion
Reference	Li, J., Wei, Z., Zheng, M., Gu, X., Deng, Y., Qiu, R., Chen, F., Ji, C., Gong, W., Xie, Y., Mao, Y.(2006) Crystal Structure of Human Guanosine Monophosphate Reductase 2 (GMPR2) in Complex with GMPJ.Mol.Biol.355: 980-988

GENE INFORMATION

Gene Name	GMPR2
Synonyms	MGC15084; MGC830; GMP reductase 2; guanosine 5"-monophosphate oxidoreductase 2; guanosine monophosphate reductase isolog; EC 1.7.1.7
UniProt ID	Q9P2T1
Gene ID	51292
Chromosome Location	14q12
Function	GMP reductase activity; metal ion binding; oxidoreductase activity; potassium ion binding

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