

## Guanosine monophosphate reductase 2

CBCRY17

Lot. No. (See product label)

### Specification

<b>Background</b>	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.
<b>Protein Classification</b>	Oxidoreductase
<b>Structure Weight</b>	161477.73 Da
<b>Polymer</b>	1
<b>Molecule</b>	GMP reductase 2
<b>Chain Length</b>	366 amino acids
<b>PDB ID</b>	2A7R
<b>MMDB ID</b>	37032
<b>Source</b>	E.coli
<b>Method</b>	X-Ray Diffraction
<b>Resolution</b>	3.0
<b>Ligand Chemical Component</b>	guanosine-5'-monophosphate; sulfate ion
<b>Reference</b>	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

<b>Gene Name</b>	<a href="#">GMPR2</a>
<b>Synonyms</b>	MGC15084; MGC830; GMP reductase 2; guanosine 5'-monophosphate oxidoreductase 2; guanosine monophosphate reductase isolog; EC 1.7.1.7
<b>UniProt ID</b>	<a href="#">Q9P2T1</a>
<b>Gene ID</b>	<a href="#">51292</a>
<b>Chromosome Location</b>	14q12

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**Function**

GMP reductase activity; metal ion binding; oxidoreductase activity; potassium ion binding

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