

Recombinant Full Length Human GMPR Protein, GST-tagged

Cat. No. GMPR-5419HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GMPR full-length ORF (NP_006868.2, 1 a.a. - 345 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	345 amino acids
Description	Guanosine monophosphate reductase (EC 1.7.1.7) catalyzes the irreversible NADPH-dependent reductive deamination of guanosine monophosphate (GMP) to inosine monophosphate (IMP). GMPR is able to convert guanosine nucleotides to the pivotal precursor of both guanine (G) and adenine (A) nucleotides. It plays an important role in maintaining the intracellular balance of A and G nucleotides.[supplied by OMIM
Molecular Mass	63.8 kDa
AA Sequence	MPRIDADLKLDKFDVLLRPKRSSLKSRAEVDLERTFTFRNSKQTYSGIPIIVANMDTV GTFEMAAMVMSQHSMTAIHKHYSLDDWKL FATNHPECLQNAVAVSSGSGQNDLEKM TSILEAVPQVKFICLDVANGYSEHFVEFVKLVRAKFPEHTIMAGNVVTGEMVEELILS GADIIVGVGPGSVCTTRTKTGVGYPQLSAVIECADSAHGLKGHIISDGGCTCPGDV AKAFGAGADFMVLGGMFSGHTECAGEVIERNRKLKLFYGMSSDTAMNKHAGGVA EYRASEGKTVEVPYKGDVENTILDILGGLRSTCTYVGA AKLKELSRRTAFIRVTQQHN TVFS

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Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GMPR guanosine monophosphate reductase [Homo sapiens]
Official Symbol	GMPR
Synonyms	GMPR; guanosine monophosphate reductase; GMP reductase 1; guanine monophosphate reductase; guanosine monophosphate reductase 1; guanosine 5-monophosphate oxidoreductase 1; GMPR1;
Gene ID	2766
mRNA Refseq	NM_006877
Protein Refseq	NP_006868
MIM	139265
UniProt ID	P36959

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