

Recombinant Full Length Human GMPS Protein, GST-tagged

Cat. No. GMPS-5422HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GMPS full-length ORF (AAH12178, 1 a.a. - 693 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	693 amino acids
Description	In the de novo synthesis of purine nucleotides, IMP is the branch point metabolite at which point the pathway diverges to the synthesis of either guanine or adenine nucleotides. In the guanine nucleotide pathway, there are 2 enzymes involved in converting IMP to GMP, namely IMP dehydrogenase (IMPD1), which catalyzes the oxidation of IMP to XMP, and GMP synthetase, which catalyzes the amination of XMP to GMP. [provided by RefSeq
Molecular Mass	101.97 kDa
AA Sequence	MALCNGDSKLENAGGDLKDGHHHYEGAVVILDAGAQYGKVIDRRVRELFVQSEIFPL ETPAFAIKEQGFRAIISGGPNSVYAEDAPWFDPAIFTIGKPVLGICYGMQMMNKVFG GTVHKKSVREDGVFNISVDNTCSLFRGLQKEEVLLTHGDSVDKVDGFKVVARSG NIVAGIANESKKLYGAQFHPEVGLTENGKVILKNFLYDIAGCSGTFTVQNRELECIREI KERVGTSKVLVLLSGGVDSTVCTALLNRALNQEQVIAVHIDNGFMRKRESQSVEEAL KKLGIQVKVINAHSFYNGTTTLPISEDEDRTPRKRISKTLNMTTSPEEKRKIIIGDTFVKI ANEVIGEMNLKPEEVFLAQGTLRPDLIESASLVASGKAELIKTHHNDTELIRKLREEGK

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VIEPLKDFHKDEVIRILGRELGLPEELVSRHPFPGPLAIRVICAEEPYICKDFPETNNIL
KIVADFSASVKKPHTLLQRVKACTTEEDQEKLQMITSLSLNAFLLLPIKTVGVQGDRC
SYSYVCGISSKDEPDWESLIFLARLIPRMCHNVNRVVYIFGPPVKEPPTDVTPTFLT
GVLSTLRQADFEAHNILRESGYAGKISQMPVILTPLHFDRDPLQKQPSCQRSVVIRTF
ITSDFMTGIPATPGNEIPVEVVLKMVTEIKKIPGISRIMYDLTSKPPGTTEWE

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

GMPS guanine monphosphate synthetase [Homo sapiens]

Official Symbol

GMPS

Synonyms

GMPS; guanine monphosphate synthetase; GMP synthase [glutamine-hydrolyzing];
GMP synthase; GMP synthetase; MLL/GMPS fusion protein; glutamine
amidotransferase; guanosine 5-monophosphate synthase;

Gene ID

8833

mRNA Refseq

NM_003875

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Protein Refseq	NP_003866
MIM	600358
UniProt ID	P49915

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