

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
Protein Length	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 NIVAGIANESKKLYGAQFHPEVGLTENGKVLKNFLYDIAGCSGTFTVQNRELECIREI KERVGTSKVLVLLSGGVDSTVCTALLNRALNQEQVI AVHIDNGFMRKRESQSVEEAL KKG IQVKVINA AHSFYNGTTTLPISDEDRTPRKRISKTLNMTTSPEEKRKIIGDTFVKI ANEVIGEMNLKPEEVFLAQQGLRPLDIESASLVASGKAELIKTHHNDTELIRKLREEGK

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VIEPLKDFHKDEVRI LGRELGLPEELVSRHPPGPGLAIRVICAEEPYICKDFPETNNIL
 KIVADFSASVKKPHTLLQRVKACTTEEDQEKL MQITSLHSLNAFLLPIKTVGVVQGDRCR
 SYSYVCGISSKDEPDWESLIFLARLIPRMCHNVNRVVYIFGPPVKEPPTDVTPTFLT
 TGVLSTLRQADFEAHNILRESGYAGKISQMPVILTPLHFDRDPLQKQPSCQRSVVIRTF
 ITSDFMTGIPATPGNEIPVEVVLK MVTEIKKIPGISRIMYDLTSKPPGTTEWE

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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