

Recombinant Human GMPS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GMPS-3384H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMPS MS Standard C13 and N15-labeled recombinant protein (NP_003866) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	76.7 kDa
AA Sequence	MALCNGDSKLENAGGDLKDGHHHYEGAVVILDAGAQYGKVIDRRVRELFVQSEIFPL ETPAFAIKEQGFRAIISGGPNSVYAEDAPWFDPAIFTIGKPVLGICYGMQMMNKVFG GTVHKKSVREDGVFNISVDNTCSLFRGLQKEEVLLTHGDSVDKVDAGFKVVARSG NIVAGIANESKKLYGAQFHPEVGLTENGKVLKNFLYDIAGCSGTFVQNRELECIREI KERVGTSKVLVLLSGGVDSTVCTALLNRALNQEQQVIAVHIDNGFMRKRESQSVEEAL KKLGIVQKVINAHSFYNGTTTTLPISDEDRTPRKRISKTLNMTTSPEEKRKIIGDTFVKI ANEVIGEMNLKPEEVFLAQGTLRPDLIESASLVASGKAELIKTHHNDTELIRKLREEGK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VIEPLKDFHKDEVRLGRELGLPEELVSRHPFPGPLAIRVICAEEPYICKDFPETNNIL
KIVADFSASVKKPHTLLQRVKACTTEEDQEKLQMITSLSLNAFLLPIKTVGVQGDRC
SYSYVCGISSKDEPDWESLIFLARLIPRMCHNVNRVVYIFGPPVKEPPTDVTPTFLT
GVLSTLRQADFEAHNILRESGYAGKISQMPVILTPLHFDRDPLQKQPSCQRSVVIRTF
ITSDFMTGIPATPGNEIPVEVVLKMVTEIKKIPGISRIMYDLTSKPPGTTEWETRTRPLE
QKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [GMPS guanine monphosphate synthetase \[Homo sapiens \(human\) \]](#)

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](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

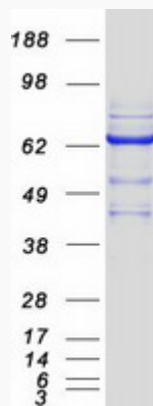
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_003866

MIM 600358

UniProt ID P49915

SDS-PAGE



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA