

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	MALCNGDSKLENAGGDLKDGHHHYEGAVVILDAGAQYGKVIDRRVRELFVQSEIFPLETPAFAIKEQGFRAIISGGPNSVYAEDAPWFDPAIFTIGKPVLGICYGMQMMNKVFGGTVHKKSVREDGVFNISVDNTCSLFRGLQKEEVLLTHGDSVDKVDAGFKVVARSGNIVAGIANESKKLYGAQFHPEVGLTENGKVLKNFLYDIAGCSGFTTVQNRELECIREIKERVGTSKVLVLLSGGVDSTVCTALLNRALNQEQVIHVHIDNGFMRKRESQSVEEALKKLGIVQKVINAHSFYNGTTTTLPISDEDRTPRKRISKTLNMTTSPEEKRKIIIGDTFVKIANEVIGEMNLKPEEVFLAQGTLRPDLIESASLVASGKAELIKTHHNDTELIRKLREEGK

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VIEPLKDFHKDEVRI LGRELGLPEELVSRHPFPGPLAIRVICAEEPYICKDFPETNNIL
 KIVADFSASVKKPHTLLQRVKACTTEEDQEKL MQITSLHSLNAFLLLPIKTVGVQGDRC
 SYSYVCGISSKDEPDWESLIFLARLIPRMCHNVNRVVYIFGPPVKEPPTDVTPTFLT
 T GVLSTLRQADFEAHNILRESGYAGKISQMPVILTPLHFDRDPLQKQPSCQRSVVIRTF
 ITSDFMTGIPATPGNEIPVEVVLK MVTEIKKIPGISRIMYDLTSKPPGTTEWETRTRPLE
 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

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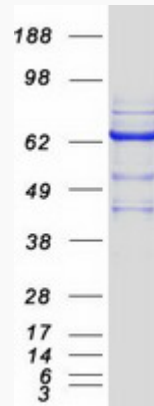
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Protein Refseq NP_003866

MIM 600358

UniProt ID P49915

SDS-PAGE



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