

## Product datasheet for **AR50228PU-S**

### GMP synthetase / GMPS (1-693, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	GMP synthetase / GMPS (1-693, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>MGSHMALCNG</u> DSKLENAGGD LKDGHHHYEG AWILDAGAQ YGKVIDRRVR ELVQSEIFP LETPAFAIKE QGFRAIIISG GPNSVYAEDA PWFDP AIFTI GKPVLGICYG MQMMNKVFGG TVHKKSVRED GVFNISVDNT CSLFRGLQKE EVLLTHGDS VDKVADGFKV VARSGNIVAG IANESKKLYG AQFHPEVGLT ENGVILKNF LYDIAGCSGT FTVQNRELEC IREIKERVGT SKVLVLLSGG VDSTVCTALL NRALNQEQVI AVHIDNGFMR KRESQSVEEA LKKLGIQVKV INAAHSFYNG TTTLPISDED RTPRKRIKT LNMTTSPEEK RKIIGDTFVK IANEVIGEMN LKPEEVFLAQ GTLRPDLIES ASLVASGKAE LIKTHHNDTE LIRKLREEGK VIEPLKDFHK DEVRILGREL GLPEELVSRH PFPGPGLAIR VICAEEPYIC KDFPETNNIL KIVADFSASV KKPHTLLQRV KACTTEEDQE KLMQITSLHS LNAFLLPKVT VGVQGDRCYSY SYVCGISSKD EPDWESLIFL ARLIPRMCHN VNRVVYIFGP PVKEPPTDVT PTFLTGTGVLV TLRQADFEAH NILRESGYAG KISQMPVILT PLHFDRDPLQ KQPSCQRSV VIRTFTSDFM TGIPATPGNE IPVEVVLKMMV TEIKKIPGIS RIMYDLTSKP PGTTEWE
Tag:	His-tag
Predicted MW:	79.2 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 30% glycerol, 0.1M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human GMPS protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_003866</u>



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Locus ID: 8833

UniProt ID: [P49915](#), [A0A140VJK6](#)

Cytogenetics: 3q25.31

Synonyms: GATD7

**Summary:** 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, Jul 2008]

**Protein Families:** Stem cell - Pluripotency

**Protein Pathways:** Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism

### Product images:

