# Recombinant Human GMPS Protein, His-tagged

**Cat. No.** GMPS-2206H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human GMPS Protein (Met1-Glu263) with a N-His tag was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | Met1-Glu263 |
| **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. |
| **Form** | Freeze-dried powder |
| **Molecular Mass** | Predicted Molecular Mass: 32.2 kDa<br>Accurate Molecular Mass: 32 kDa |
| **Endotoxin** | <1.0 EU per 1μg (determined by the LAL method). |
| **Purity** | > 90% |

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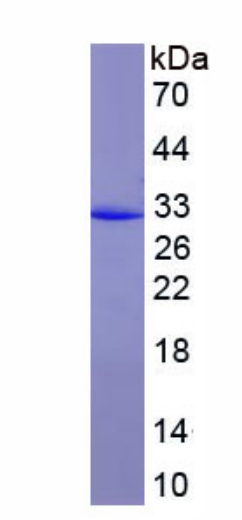
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| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB. |
| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| **Storage Buffer** | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| **Reconstitution** | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

## GENE INFORMATION

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| **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 |
| **Protein Refseq** | NP_003866 |

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| **MIM** | 600358 |
| **UniProt ID** | P49915 |




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