

## Recombinant Human GMPR2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** GMPR2-956H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | GMPR2 MS Standard C13 and N15-labeled recombinant protein (NP_001002000) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes an enzyme that catalyzes the irreversible and NADPH-dependent reductive deamination of guanosine monophosphate (GMP) to inosine monophosphate (IMP). The protein also functions in the re-utilization of free intracellular bases and purine nucleosides. Alternative splicing results in multiple transcript variants.                                                                            |
| <b>Molecular Mass</b>   | 37.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MPHIDNDVKLDFKDVLLRPKRSTLKSREVDLTRSFSFRNSKQTYSGVPPIAANMDTV<br>GTFEMAKVLCKFSLFTAVHKHYSLVQWQEFAGQNPDCLEHLAASSGTGSSDFEQLE<br>QILEAIPQVKYICLDVANGYSEHFVEFVKDVRKRFPQHTIMAGNVVTGEMVEELILSG<br>ADIIKVGIGPGSVCTTRKKTGVGYPQLSAVMECADAHAHGLKGHIISDGGCSCPGDVA<br>KAFGAGADFVMLGGMLAGHSESGGELIERDGKKYKLFYGMSSSEMAMKKYAGGVAE<br>YRASEGKTVEVPFKGDVEHTIRDILGGIRSTCTYVGAARKLSESRRTTFIRVTQQVNPI<br>FSEACTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                          |

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|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

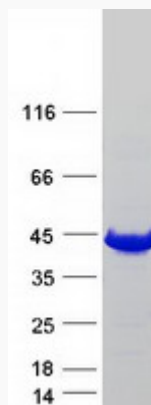
## GENE INFORMATION

|                        |                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GMPR2 guanosine monophosphate reductase 2 [ Homo sapiens (human) ]                                                                                                   |
| <b>Official Symbol</b> | GMPR2                                                                                                                                                                |
| <b>Synonyms</b>        | GMPR2; guanosine monophosphate reductase 2; GMP reductase 2; guanosine monophosphate reductase isolog; guanosine 5-monophosphate oxidoreductase 2; MGC830; MGC15084; |
| <b>Gene ID</b>         | 51292                                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_001002000                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_001002000                                                                                                                                                         |
| <b>MIM</b>             | 610781                                                                                                                                                               |
| <b>UniProt ID</b>      | Q9P2T1                                                                                                                                                               |

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**SDS-PAGE**

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