

## Recombinant Human GMPR2, His-tagged

**Cat. No.** GMPR2-13340H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GMPR2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | C-term-366a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. Mutations in this gene can cause non-syndromic deafness or erythrokeratoderma variabilis, a skin disorder. Alternative splicing results in multiple transcript variants encoding the same protein. |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Tag</b>              | His                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                     |

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**Storage Buffer**

1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

**GENE INFORMATION**
**Gene Name**

GMPR2 guanosine monophosphate reductase 2 [ Homo sapiens ]

**Official Symbol**

GMPR2

**Synonyms**

GMPR2; guanosine monophosphate reductase 2; GMP reductase 2; guanosine monophosphate reductase isolog; guanosine 5-monophosphate oxidoreductase 2; MGC830; MGC15084;

**Gene ID**

51292

**mRNA Refseq**

NM\_001002000

**Protein Refseq**

NP\_001002000

**MIM**

610781

**UniProt ID**

Q9P2T1

**Chromosome Location**

14q11.2

**Pathway**

Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Purine salvage, organism-specific biosystem;

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**Function**

GMP reductase activity; metal ion binding; oxidoreductase activity;

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