

## Recombinant Human GMPR Protein (Human Cells, His Tag)

Catalog No. PKSH033290

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

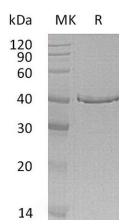
### Description

<b>Synonyms</b>	GMF Reductase 1;Guanosine 5'-Monophosphate Oxidoreductase 1;Guanosine Monophosphate Reductase 1;GMFR;GMFR1
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Ser345
<b>Accession</b>	AAH08281.1
<b>Calculated Molecular Weight</b>	38.5 kDa
<b>Observed molecular weight</b>	40 kDa
<b>Tag</b>	C-His
<b>Bioactivity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 40% Glycerol, 150mM NaCl, 1mM DTT, pH 8.0.
<b>Reconstitution</b>	Not Applicable

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

GMF Reductase 1 (GMFR) is a member of the IMPDH/GMFR family. GMFR exists as a homotetramer and catalyzes the irreversible NADPH-dependent deamination of GMF to IMP. It functions in the conversion of nucleobase; nucleoside and nucleotide derivatives of G to A nucleotides; and in maintaining the intracellular balance of A and G nucleotides. GMF reductase gene expression may be regulated by MITF. At least two different alleles are known.

### For Research Use Only