



Recombinant Protein Technical Manual

Recombinant Human GMPR Protein (Human Cells, His Tag)

RPES1301

Product Data:

Product SKU: RPES1301

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P36959

Protein Information:

Molecular Mass: 38.5 kDa

AP Molecular Mass: 38.5 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: 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.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 40% glycerol, 0.15M NaCl and 1mM DTT, pH8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: GMP Reductase 1; Guanosine 5'-Monophosphate Oxidoreductase 1; Guanosine Monophosphate Reductase 1; GMPR; GMPR1

Immunogen Information:

Sequence: Met 1-Ser345

Background:

GMP Reductase 1 (GMPR) is a member of the IMPDH/GMPR family. GMPR exists as a homotetramer and catalyzes the irreversible NADPH-dependent deamination of GMP 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. GMP reductase gene expression may be regulated by MITF. At least two different alleles are known.