



Recombinant Protein Technical Manual

Recombinant Human GMPR Protein (E. coli, His Tag)

RPES3792

Product Data:

Product SKU: RPES3792

Size: 20µg

Species: Human

Expression host: E. coli

Uniprot: P36959

Protein Information:

Molecular Mass: 39.2 kDa

AP Molecular Mass: 37 kDa

Tag: N-His

Bio-activity:

Purity: > 85 % as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 50mM Tris, 150mM NaCl, 40% Glycerol, 1mM DTT, pH 8.0

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:

GMPR, also known as GMPR1, belongs to the IMPDH/GMPR family. This family of enzymes includes IMP dehydrogenase and GMP reductase. These enzymes are involved in purine metabolism and adopt a TIM barrel structure. GMPR is an enzyme that catalyzes the irreversible and NADPH-dependent reductive deamination of GMP to IMP. GMPR 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.