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

Catalog No. PKSH030542

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

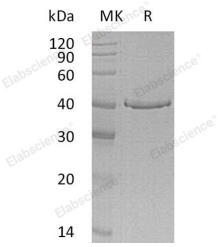
Description

Synonyms	GMP Reductase 1;Guanosine 5'-Monophosphate Oxidoreductase 1;Guanosine Monophosphate Reductase 1;GMPR;GMPR1
Species	Human
Expression Host	E.coli
Sequence	Met 1-Ser345
Accession	P36959
Calculated Molecular Weight	39.2 kDa
Observed molecular weight	37 kDa
Tag	N-His
Bioactivity	Not validated for activity

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 85 % as determined by reducing SDS-PAGE.

Background

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GMPR; also known as GMPR1; belongs to the IMPDH/GMPR family.This familyofenzymesincludesIMP dehydrogenaseandGMP reductase. These enzymes are involved inpurine metabolism and adopt aTIM barrelstructure. 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.

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