
Product Data Sheet

Product Name: GMPR Human
 Cat. No.: GP21699
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GMP reductase 1; Guanosine 5'-monophosphate oxidoreductase 1; Guanosine monophosphate reductase 1; GMPR; GMPR1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MPRIDADLKL DFKDVLLRPK RSSLKSRAEV DLERTFTFRN SKQTYSGIPI IVANMDTVGT FEMAAVMSQH SMFTAIHKHY SLDDWKL FAT NHPECLQNVA VSSGSGQNDL EKMTSILEAV PQVKFICLDV ANGYSEHFVE FVKLVRAKFP EHTIMAGNVV TGEMVEELIL SGADIIVKGV GPGSVCTTRT KTGVGYPQLS AVIECADSAH GLKGHIISDG GCTCPGDVAK AFGAGADFVM LGGMFSGHTE CAGEVIERNG RKLKLFYGMS SDTAMNKHAG GVAEYRASEG KTVEVPYKGD VENTILDILG GLRSTCTYVG AAKLKELSRR ATFIRVTQQH NTVFS.		
Formulation	The GMPR solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 40% glycerol, 0.15M NaCl and 1mM DTT.		

Introduction

Guanosine monophosphate reductase (GMPR) catalyzes the irreversible NADPH-dependent deamination of GMP to IMP. GMPR acts in the conversion of nucleobase, nucleoside and nucleotide derivatives of G to A nucleotides, and in upholding the intracellular balance of A and G nucleotides. In addition, the GMPR protein functions in the re-utilization of free intracellular bases and purine nucleosides.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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GMPR Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 365 amino acids (1-345) and having a molecular mass of 39.5kDa. GMPR is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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