

## GMPR Human

**Description:** 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.

**Catalog #:** ENPS-577

For research use only.

**Synonyms:** GMP reductase 1, Guanosine 5'-monophosphate oxidoreductase 1, Guanosine monophosphate reductase 1, GMPR, GMPR1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MPRIDADLKL DFKDVLLRPK  
RSSLSRAEV DLERTFTFRN SKQTYSGIPI IVANMDTVGT FEMAAMVMSQH SMFTAIHKHY  
SLDDWKL FAT NHPECLQNVV VSSGSGQNDL EKMTSILEAV PQVKFICLDV ANGYSEHFVE  
FVKLVRAKFP EHTIMAGNVV TGEMVEELIL SGADIIVKGV GPGSVCTTTRT KTGVGYPQLS  
AVIECADSAH GL

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The GMPR solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 40% glycerol, 0.15M NaCl and 1mM DTT.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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.

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