

## GMPR2 Human

**Description:** GMPR2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 368 amino acids (1-348 a.a.) and having a molecular mass of 40 kDa. GMPR2 is fused to a 20 amino acid His-tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-564

For research use only.

**Synonyms:** GMP reductase 2, Guanosine 5"-monophosphate oxidoreductase 2.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MPHIDNDVKL DFKDVLLRPK  
RSTLKSRSSEV DLTRSFSFRN SKQTYSGVPI IAA NMDTVGT FEMAKVLCKFSLFTAVHKHY  
SLVQWQEFAG QNPDCLEHLA ASSGTGSSDF EQLEQILEAI PQVKYICLDV ANGYSEHFVE  
FVKDVRKRFP QHTIMAGNVV TGEMVEELIL SGADIIVGI GPGSVCTTRK KTGVGYPQLS  
AVMECADA AH GLK

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

GMPR2 1mg/ml solution contains 20mM Tris pH-8, 1mM DTT and 10% glycerol.

**Stability:**

GMPR2 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C.  
Please prevent freeze thaw cycles.

**Usage:**

NeoBiolabs products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

GMPR2 is the single known metabolic step by which guanine nucleotides can be transformed to the pivotal precursor of both adenine and guanine nucleotides. GMPR2 catalyzes the permanent NADPH-dependent reductive deamination of GMP to IMP, and is involved in re-utilization of free intracellular bases and purine nucleosides.

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