

**GMPR2, 1-348aa, Human, His tag, E.coli**

**Cat.NO.: TP02282**

3th Edition

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

**Description:**Guanosine monophosphate reductase 2, also known as GMPR2, is the only known metabolic step by which guanine nucleotides can be converted to the pivotal precursor of both adenine and guanine nucleotides. GMPR2 catalyzes the irreversible and NADPH-dependent reductive deamination of GMP to IMP, and plays a critical role in re-utilization of free intracellular bases and purine nucleosides.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT,10% glycerol

**Molecular Weight:**40 kDa (368aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMPHIDNDVKLDFKDVLLRPKRSTLKSRSSEVDLTRSF SFRNSKQTYSGVPIIAANMD  
TVGTFEMAKVLCKFSLFTAVHKHYSLVQWQEFAGQNPDCLEHLAASSGTGSSDFEQLEQILEAIPQVKYICLDVAN  
GYSEHFVEFVKDVRKRFPQHTIMAGNVVTGEMVEELILSGADIKVGIGPGSVCTTRKKTGVGYPQLSAVMECADA  
A HGLKGHIISDGGCSCPGDVAKAFGAGADFVMLGGMLAGHSESGGELIERDGKKYKLFYGMSSSEMAMKKYAGGVA  
EYRASEGKTVEVPFKGDVEHTIRDILGGIRSTCTYVGA AKLKELSRRTTFIRVTQQVNPIFSEAC

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.