

Recombinant Human GMP reductase 1(GMPR)

Catalog No: #AP71078

Package Size: #AP71078-1 20ug #AP71078-2 100ug #AP71078-3 1mg

Description

Product Name	Recombinant Human GMP reductase 1(GMPR)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-345aaSequence Info:Full Length
Other Names	Guanosine 5'-monophosphate oxidoreductase 1 ;Guanosine monophosphate reductase 1
Accession No.	P36959
Calculated MW	53.4 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MPRIDADLKLDKDFVLLRPKRSSLKSRAEVDLERTFTFRNSKQTYSGIPIIVANMDTVGTFEMAAMVMSQHSMT AIHKHYSLDDWKLAFATNHPECLQNVAVSSGSGQNDLEKMTSILEAVPQVKFICLDVANGYSEHFVEFVKLVRA KFPEHTIMAGNVVTGEMVEELILSGADIIVGVGPGSVCTTRTKTGVGYPLSAVIECADSAHGLKGHIISDGGC TCPGDVAKAFGAGADFMVLMGFMFSGHTECAGEVFERNGRKLKLFYGMSSDTAMNKHAGGVAEYRASEGKT VEVYPYKGDVENTILDILGGLRSTCTYVGAALKELSRRTAFIRVTQQHNTVFS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Catalyzes the irreversible NADPH-dependent deamination of GMP to IMP. It 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.

References

Two structural genes on different chromosomes are required for encoding the major subunit of human red cell glucose-6-phosphate dehydrogenase.Kanno H., Huang I.Y., Kan Y.W., Yoshida A.Cell 58:595-606(1989)Research Topic:Cell Biology

Note: This product is for in vitro research use only and is not intended for use in humans or animals.