

Recombinant Rat Multiple inositol polyphosphate phosphatase 1(Minpp1)

Catalog No: #AP70543

Package Size: #AP70543-1 20ug #AP70543-2 100ug #AP70543-3 1mg

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Description

Product Name	Recombinant Rat Multiple inositol polyphosphate phosphatase 1(Minpp1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:31-481aaSequence Info:Full Length
Other Names	2,3-bisphosphoglycerate 3-phosphatase (EC:3.1.3.80) ;2,3-BPG phosphataseInositol (1,3,4,5)-tetrakisphosphate 3-phosphatase ;Ins(1,3,4,5)P(4) 3-phosphatase
Accession No.	O35217
Calculated MW	55.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	SLPGRGDPVASVLSPLYFGTKTRYEDVNPWLLGDPVAPRRDPELLAGTCTPVQLVALIRHGTRYPTTKQIRKLRLQQLGLLTRESVDGGSRVAAALDQWPLWYDDWMDGQLVEKGRQDMRQLALRLAALFPDLFCRENYGRLRLITSSKHRCVDSSAFLQGLWQHYHPGLPPPVDSDMECDPPRVNDKLMRFFDHCEKFLTEVERNATALYHVEAFKTGPEMQTVLKKVAATLQVPVNNLNADLIQVAFFTCSFDLAIQGVHSPWCDVFDVDDAKVLEYLNDLKQYWKRSYGYAINSRSSCNLFQDIFLHLDKAVEQKQRSQPVSSSVILQFGHAETLLPLLSLMGYFKDKEPLTAYNFEEQVHREFRSGHIVPYASNLIFVLYHCEDAQTPQEKFQIQMLLNEKVLPLAHSQKTVALYEDLKNHYQDILQSCQTSKECNLPKVNITSDEL
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

Acts as a phosphoinositide 5- and phosphoinositide 6-phosphatase and regulates cellular levels of inositol pentakisphosphate (InsP5) and inositol hexakisphosphate (InsP6). Also acts as a 2,3-bisphosphoglycerate 3-phosphatase, by mediating the dephosphorylation of 2,3-bisphosphoglycerate (2,3-BPG) to produce phospho-D-glycerate without formation of 3-phosphoglycerate. May play a role in bone development (endochondral ossification).

References

The human and rat forms of multiple inositol polyphosphate phosphatase functional homology with a histidine acid phosphatase up-regulated during endochondral ossification.Caffrey J.J., Hidaka K., Matsuda M., Hirata M., Shears S.B.FEBS Lett. 442:99-104(1999)Research Topic:Others

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