

Recombinant Rattus norvegicus Multiple inositol polyphosphate phosphatase 1

Catalog No: #AP72669

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Package Size: #AP72669-1 20ug #AP72669-2 100ug #AP72669-3 1mg

Description

Product Name	Recombinant Rattus norvegicus Multiple inositol polyphosphate phosphatase 1
Brief Description	Recombinant Protein
Host Species	Yeast
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
Uniprot	O35217
GeneID	29688;
Calculated MW	53.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	SLPGRGDPVASVLSPLYFGTKTRYEDVNPWLLGDPVAPRRDPELLAGTCTPVQLVALIRHGTRYPTTKQIRKLR QLQGLLQTTRESVDGGSRVAAALDQWPLWYDDWMDGQLVEKGRQDMRQLALRLAALFPDLFCRENYGRLRL ITSSKHRCVDSSAAFQGLWQHYHPGLPPPVDSDMECDPPRVNDKLMRFFDHCEKFLTEVERNATALYHVEA FKTGPEMQTVLKKVAATLQVPVNNLNADLIQVAFFTCFSLAIQGVHSPWCDVFDVDDAKVLEYLNDLKQYWK RSYGYAINSRSSCNLFQDIFLHLDKAVEQKQRSQPVSSSVILQFGHAETLLPLLSLMGYFKDKEPLTAYNFEEQ VHREFRSGHIVPYASNLIFVLYHCEDAQTPQEKFQIQMLLNEKVLPLAHSQKTVALYEDLKNHYQDILQSCQTS KECNLPKVNITSDEL
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

Molecular cloning and expression of a rat hepatic multiple inositol polyphosphate phosphatase.Craxton A., Caffrey J.J., Burkhart W., Safrany S.T., Shears S.B.Biochem. J. 328:75-81(1997)Research Topic:Others

Note: This product is for in vitro research use only