

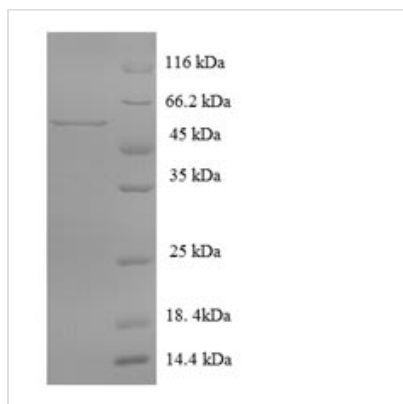


Recombinant Rat Multiple inositol polyphosphate phosphatase 1 (Minpp1)

Product Code	CSB-EP013831RA
Relevance	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).
Abbreviation	Recombinant Rat Minpp1 protein
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.
Uniprot No.	O35217
Alias	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
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	SLPGRGDPVASVLSPYFGTKTRYEDVNPWLLGDPVAPRRDPELLAGTCTPVQ LVALIRHGTRYPTTKQIRKLRQLQGLLQTRESVDGGSRVAAALDQWPLWYDD WMDGQLVEKGRQDMRQLALRLAALFPDLFCRENYGRLRLITSSKHRCVDSSA AFLQGLWQHYHPGLPPPDVSDMECDPPRVNDKLMRFFDHCEKFLTEVERNA TALYHVEAFKTGPEMQTVLKKVAATLQVPVNNLNADLIQVAFFTCSFDLAIQGV HSPWCDVFDVDDAKVLEYLNDLKQYWKRSGYAINSRSSCNLFQDIFLHLDKA VEQKQRSQPVSSSVILQFGHAETLLPLLSLMGYFKDKEPLTAYNFEEQVHREF RSGHIVPYASNLIFVLYHCEDAQTPQEKFQIQMLLNEKVLPLAHSQKTVALYED LKNHYQDILQSCQTSKECNLPKVNITSDEL
Research Area	Others
Source	E.coli
Target Names	Minpp1
Expression Region	31-481aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged



Mol. Weight	55.6kDa
Protein Length	Full Length of Mature Protein

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

This Rat Minpp1 recombinant protein was produced in E.coli, where the gene sequence encoding Rat Minpp1 (31-481aa) was expressed with the N-terminal 6xHis tag. The purity of this Minpp1 protein was greater than 90% by SDS-PAGE.

Minpp1 belongs to the phosphatase family, and its main function is to hydrolyze inositol polyphosphates, converting them into lower phosphorylated forms. These polyphosphates include inositol hexaphosphate (IP6) and inositol tetrakisphosphate (IP4), and their concentrations within cells regulate multiple cell signaling pathways. The activity of Minpp1 influences several cell signaling pathways, including cell proliferation, apoptosis, cell cycle regulation, cell migration, and cell adhesion. By modulating the hydrolysis of inositol polyphosphates, Minpp1 plays a regulatory role in these cellular processes.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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.