

Recombinant Rat MINPP1 Protein (31-481 aa), His-tagged

Cat. No. MINPP1-654R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat MINPP1 Protein (31-481 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Rat
Source	E.coli
ProteinLength	31-481 aa
Description	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).
Form	Tris-based buffer, 50% glycerol
Molecular Mass	55.6 kDa
AA Sequence	SLPGRGDPVASVLSPYFGTKTRYEDVNPWLLGDPVAPRRDPELLAGTCTPVQLVALI RHGTRYPTTKQIRKLRQLQGLLQTRESVDGGSRVAAALDQWPLWYDDWMDGQLV EKGRQDMRQLALRLAALFPDLFCRENYGRLRLITSSKHRCVDSSAAFLQGLWQHYH PGLPPPDVSDMECDPPRVNDKLMRFFDHCEKFLTEVERNATALYHVEAFKTGPEM

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QTVLKKVAATLQVPVNNLNADLIQVAFFTCSFDLAIQGVHSPWCDVFDVDDAKVLEY
LNDLKQYWKRSGYAINSRSSCNLFQDIFLHLDKAVEQKQRSQPVSSSVILQFGHAE
TLLPLLSLMGYFKDKEPLTAYNFEEQVHREFRSGHIVPYASNLIFVLYHCEDAQTPQE
KFQIQMLLNEKVLPLAHSQKTVALYEDLKNHYQDILQSCQTSKECNLPKVNITSDEL

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name [Minpp1 multiple inositol-polyphosphate phosphatase 1 \[Rattus norvegicus \]](#)

Official Symbol [MINPP1](#)

Synonyms MINPP1; ins(1,3,4,5)P(4) 3-phosphatase;

Gene ID [29688](#)

mRNA Refseq [NM_019263](#)

Protein Refseq [NP_062136](#)

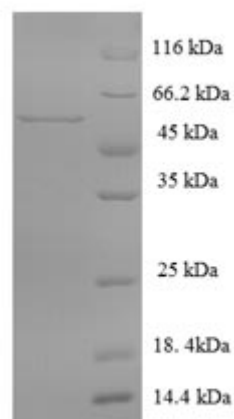
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UniProt ID

O35217



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

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