

## Recombinant Human MINPP1

Catalog No: C525

<b>Description</b>	Recombinant Human Multiple Inositol Polyphosphate Phosphatase 1 is produced by our Mammalian expression system and the target gene encoding Ser31-Leu487 is expressed with a 6His tag at the C-terminus.
<b>Source</b>	Human Cells
<b>Alternative name</b>	Multiple Inositol Polyphosphate Phosphatase 1; 2;3-Bisphosphoglycerate 3-Phosphatase; 2;3-BPG Phosphatase; Inositol (1;3;4;5)-Tetrakisphosphate 3-Phosphatase; Ins(1;3;4;5)P(4) 3-Phosphatase; MINPP1; MIPP
<b>Accession No.</b>	Q9UNW1
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 10% Glycerol, pH 7.5.
<b>Reconstitution</b>	<p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> <p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
<b>Quality Control</b>	<p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.</p>
<b>Shipping</b>	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
<b>Storage</b>	<p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>
<b>Amino Acid Sequence</b>	<p>SLLEPRDPVASSLSPYFGTKTRYEDVNPVLLSGPEAPWRDPELLEGTCTPVQLVALIRHGTRYPTVKQI</p> <p>RKLRQLHGLLQARGSRD</p> <p>GGASSTGSRDLGAALADWPLWYADWMDGQLVEKGRQDMRQLALRLASLFPALFSRENYGRLRLITS</p> <p>SKHRCMDSSAFLQG</p> <p>LWQHYHPGLPPPDVADMEFGPPTVNDKLMRFFDHCEKFLTEVEKNATALYHVEAFKTGPEMQNILKK</p> <p>VAATLQVPVNDLNA</p> <p>DLIQVAFFTCSDLAIKGVKSPWCDVFDIDDAKVLEYLNDLKQYWKRGYGYTINSRSSCTLFQDIFQHL</p> <p>DKAVEQKQRSQPISSP</p> <p>VILQFGHAETLLPLLSLMGYFKDKEPLTAYNYKKQMHRKFRSGLIVPYASNLIFVLYHCENAKTPKEQFR</p> <p>VQMLLNEKVLPLAYS QETVSFYEDLKNHYKDILQSCQTSEECELARANSTSELDVDDHHHHHH</p>
<b>Background</b>	Multiple Inositol Polyphosphate Phosphatase 1/MINPP1 is an enzyme that removes 3-phosphate from inositol phosphate substrates. MINPP1 also converts 2,3 bisphosphoglycerate (2,3-BPG) to 2-phosphoglycerate. MINPP1 is synthesized as a 487 amino acid precursor that contains an 30 amino acid signal peptide and a 457 amino acid mature chain. MINPP1 is widely expressed with the highest levels found in kidney, liver and placenta. It acts as a phosphoinositide 5- and phosphoinositide 6-phosphatase and regulates cellular levels of inositol pentakisphosphate (InsP5) and inositol hexakisphosphate (InsP6). MINPP1 may play a role in bone development (endochondral ossification).

### SDS-Page



