



Recombinant Protein Technical Manual

Recombinant Human MINPP1 Protein (His Tag)

RPES4905

Product Data:

Product SKU: RPES4905

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q9UNW1

Protein Information:

Molecular Mass: 53.1 kDa

AP Molecular Mass: 56 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, 10% Glycerol, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: 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

Immunogen Information:

Sequence: Ser31-Leu487

Background:

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).