Recombinant Human MINPP1 Protein (His Tag)

Catalog Number:PKSH032767

Note: Centrifuge before opening to ensure complete recovery of vial contents.

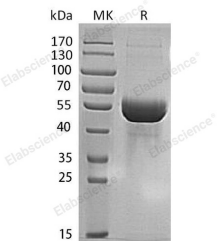
Description

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
Species	Human
Expression Host	HEK293 Cells
Sequence	Ser31-Leu487
Accession	Q9UNW1
Calculated Molecular Weight	53.1 kDa
Observed molecular weight	56 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein 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 Tris-HCl, 150mM NaCl, 10% Glycerol, pH 7.5.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

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 aicd 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).

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