

MINPP1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70937
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
Source:	HEK293
Accession:	Q9UNW1 (S31-L487)
Gene ID:	9562
Molecular Weight:	Approximately 56.0 kDa

PROPERTIES

AA Sequence

S L L E P R D P V A	S S L S P Y F G T K	T R Y E D V N P V L	L S G P E A P W R D
P E L L E G T C T P	V Q L V A L I R H G	T R Y P T V K Q I R	K L R Q L H G L L Q
A R G S R D G G A S	S T G S R D L G A A	L A D W P L W Y A D	W M D G Q L V E K G
R Q D M R Q L A L R	L A S L F P A L F S	R E N Y G R L R L I	T S S K H R C M D S
S A A F L Q G L W Q	H Y H P G L P P P D	V A D M E F G P P T	V N D K L M R F F D
H C E K F L T E V E	K N A T A L Y H V E	A F K T G P E M Q N	I L K K V A A T L Q
V P V N D L N A D L	I Q V A F F T C S F	D L A I K G V K S P	W C D V F D I D D A
K V L E Y L N D L K	Q Y W K R G Y G Y T	I N S R S S C T L F	Q D I F Q H L D K A
V E Q K Q R S Q P I	S S P V I L Q F G H	A E T L L P L L S L	M G Y F K D K E P L
T A Y N Y K K Q M H	R K F R S G L I V P	Y A S N L I F V L Y	H C E N A K T P K E
Q F R V Q M L L N E	K V L P L A Y S Q E	T V S F Y E D L K N	H Y K D I L Q S C Q
T S E E C E L A R A	N S T S D E L		

Biological Activity The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

Appearance Solution.

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

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution N/A

Storage & Stability Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping Shipping with dry ice.

DESCRIPTION

Background

MINPP1 Protein acts as a dual-function phosphatase, exhibiting phosphoinositide 5- and phosphoinositide 6-phosphatase activity to regulate cellular levels of inositol pentakisphosphate (InsP5) and inositol hexakisphosphate (InsP6). Additionally, it functions as a 2,3-bisphosphoglycerate 3-phosphatase, catalyzing the dephosphorylation of 2,3-bisphosphoglycerate (2,3-BPG) to produce phospho-D-glycerate without the formation of 3-phosphoglycerate. These activities are crucial for cellular processes, including bone development, specifically in endochondral ossification, and may contribute to the transition of chondrocytes from proliferation to hypertrophy. By regulating intracellular inositol polyphosphates, MINPP1 plays a potential role in controlling intracellular cation homeostasis, impacting free cation availability required for neural cell signaling.

Caution: Product has not been fully validated for medical applications. For research use only.

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