

IMPA3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P70865
Synonyms:	Inositol monophosphatase 3; Impad1
Species:	Mouse
Source:	HEK293
Accession:	Q80V26 (E51-H356)
Gene ID:	242291
Molecular Weight:	Approximately 38.0 kDa

PROPERTIES

AA Sequence	E V A S D G G T V D L R E M L A V A V L A A E R G G D E V R R V R E S N V L H E K S K G K T R E G A D D K M T S G D V L S N R K M F Y L L K T A F P N V Q I N T E E H V D A S D K E V I V W N R K I P E D I L K E I A A P K E V P A E S V T V W I D P L D A T Q E Y T E D L R K Y V T T M V C V A V N G K P V L G V I H K P F S E Y T A W A M V D G G S N V K A R S S Y N E K T P K I I V S R S H A G M V K Q V A L Q T F G N Q T S I I P A G G A G Y K V L A L L D V P D M T Q E K A D L Y I H V T Y I K K W D I C A G N A I L K A L G G H M T T L N G E E I S Y T G S D G I E G G L L A S I R M N H Q A L V R K L P D L E K S G H
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 50 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	IMPA3 protein demonstrates 3'-nucleotidase activity, specifically hydrolyzing adenosine 3',5'-bisphosphate (PAP) into adenosine 5'-monophosphate (AMP) and a phosphate. This enzymatic function suggests a potential role in the formation of skeletal elements derived through endochondral ossification, possibly by clearing adenosine 3',5'-bisphosphate produced
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by Golgi sulfotransferases during glycosaminoglycan sulfation. Notably, IMPA3 exhibits no activity toward 3'-phosphoadenosine 5'-phosphosulfate (PAPS) or inositol phosphate (IP) substrates, including I(1)P, I(1,4)P₂, I(1,3,4)P₃, I(1,4,5)P₃, and I(1,3,4,5)P₄. The selective enzymatic profile of IMPA3 underscores its specific involvement in nucleotide metabolism and its potential regulatory role in skeletal development processes.

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

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