ZP3 Protein, Human (HEK293, His)

Cat. No.:	HY-P71672
Synonyms:	HUMZP3; Processed zona pellucida sperm-binding protein 3; Sperm receptor; Zp-3; ZP3 372; ZP3 424; ZP3 474; ZP3; ZP3_HUMAN; ZP3A; ZP3A/ZP3B; ZP3B; ZPC
Species:	Human
Source:	HEK293
Accession:	P21754 (23Q-387V)
Gene ID:	7784
Molecular Weight:	approximately 55-75 kDa

PROPERTIES

AA Sequence	Q P L W L L Q G G A S H P E T S V Q P V L V E C Q E A T L M V M V S K D L F G T G K L I R A A D L T L G P E A C E P L V S M D T E D V V R F E V G L H E C G N S M Q V T D D A L V Y S T F L L H D P R P V G N L S I V R T N R A E I P I E C R Y P R Q G N V S S Q A I L P T W L P F R T T V F S E E K L T F S L R L M E E N W N A E K R S P T F H L G D A A H L Q A E I H T G S H V P L R L F V D H C V A T P T P D Q N A S P Y H T I V D F H G C L V D G L T D A S S A F K V P R P G P D T L Q F T V D V F H F A N D S R N M I Y I T C H L K V T L A E Q D P D E L N K A C S F S K P S N S W F P V E G S A D I C Q C C N K G D C G T P S H S R R Q P H V M S Q W S R S A S R N R R H V T E E A D V T V G P L I F L D R R G D H E V E Q W A L P S D T S V
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4, 20% Glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	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	As a crucial element of the zona pellucida, ZP3 protein contributes to the extracellular matrix surrounding oocytes, playing a pivotal role in mediating sperm binding, inducing the acrosome reaction, and preventing post-fertilization polyspermy. Within the zona pellucida, ZP3, along with ZP1, ZP2, and ZP4, forms a glycoprotein complex essential for sperm binding and

the formation of the zona matrix. ZP2 and ZP3 polymers organize into long filaments cross-linked by ZP1 homodimers, highlighting the structural intricacies of the zona pellucida matrix. Moreover, ZP3 actively interacts with ZP1 and ZP2, underscoring its integral role in the complex molecular architecture that governs fertilization processes.

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