

Zona pellucida sperm-binding protein 3 (ZP3) Recombinant Protein | ZP3 recombinant protein

Recombinant Dog Zona pellucida sperm-binding protein 3 (ZP3)

CATALOG # AAA113984	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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PRODUCT SYNONYMS

Zona pellucida sperm-binding protein 3 (ZP3); Recombinant Dog Zona pellucida sperm-binding protein 3 (ZP3); Recombinant Zona pellucida sperm-binding protein 3 (ZP3); Zona pellucida sperm-binding protein 3; Sperm receptor Zona pellucida glycoprotein 3; Zp-3 Zona pellucida protein C Cleaved into the following chain: 1. Processed zona pellucida sperm-binding prote; ZP3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	23-350. Full length of the mature protein (Provide the Zona pellucida sperm-binding protein 3 chain)
Sequence	QTIWPTETYY PLTSRPPVMV DCLESQLVVT VSKDLFGTGK LIRPADLTG PENCEPLVSM DTDDVVRFEV GLHECGSRVQ VTDNALVYST FLIHSPRPAG NLSILRTNRA EVPIECHYPR HSNVSSQAIL PTWVPFRTTM LFEEKLVFSL RLMEEDWGSE KQSPTFQLGD IAHLQAEVHT GSHMPLRLFV DHCVALTPD RNAFLHHKIV DFHGCLVDGL YNSSSAFKAP RRPETLQFT VDVFHFAKDS RNTIYITCHL KVTPADRVPD QLNKACFSIK STKRWYPVEG SADICCCNK GSCGLPGRSR RLSHLERGWR KVSSTRN
Sequence Length	350
Species	Canis familiaris (Dog) (Canis lupus familiaris)
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.

ADDITIONAL INFORMATION

Related Product Information for ZP3 recombinant protein	The zona pellucida is an extracellular matrix that surrounds the oocyte and early embryo. It is composed primarily of three or four glycoproteins with various functions during fertilization and preimplantation development. This protein is a structural component of the zona pellucida and functions in primary binding and induction of the sperm acrosome reaction. The nascent protein contains a N-terminal signal peptide sequence, a conserved ZP domain, a C-terminal consensus furin cleavage site, and a transmembrane domain. It is hypothesized that furin cleavage results in release of the mature protein from the plasma membrane for subsequent incorporation into the zona pellucida matrix. However, the requirement for furin cleavage in this process remains controversial based on mouse studies. A variation in the last exon of this gene has previously served as the basis for an additional ZP3 locus; however, sequence and literature review reveals that there is only one full-length ZP3 locus in the human genome. Another locus encoding a bipartite transcript designated POMZP3 contains a duplication of the last four exons of ZP3, including the above described variation, and maps closely to this gene.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50979000
NCBI GeneID	403894
NCBI Accession #	NP_001003224.1
NCBI GenBank Nucleotide #	NM_001003224.1

UniProt Accession #	P48831
Molecular Weight	47,368 Da
NCBI Official Full Name	zona pellucida sperm-binding protein 3
NCBI Official Symbol	ZP3
NCBI Official Synonym Symbols	ZPC; Zp-3
NCBI Protein Information	zona pellucida sperm-binding protein 3; sperm receptor; zona pellucida protein C; zona pellucida glycoprotein ZP3; zona pellucida 3 glycoprotein (sperm receptor)
UniProt Protein Name	Zona pellucida sperm-binding protein 3
UniProt Gene Name	ZP3
UniProt Synonym Gene Names	ZPC; Zp-3
UniProt Entry Name	ZP3_CANFA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/zp3-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/113984>