

## **PRODUCT INFORMATION**

ZP3 **Target** 

Zona pellucida sperm-binding protein 3;Sperm **Synonyms** receptor;ZP3A/ZP3B;Zp-3;Zona pellucida protein

Recombinant human ZP3 protein with C-terminal **Description** 

6×His tag

Delivery In Stock **Uniprot ID** P21754 **Expression Host** HEK293

Tag C-6×His Tag

Characterization

Reconstitution

Background

Storage & Shipping

**Purity** 

Molecular ZP3(Gln23-Ser386) 6×His tag

The protein has a predicted molecular mass of **Molecular Weight** 66.6 kDa after removal of the signal peptide.

The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation &

 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

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. The protein encoded by this gene 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 Nterminal 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

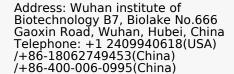
the above described variation, and maps closely to this gene. [provided by RefSeq, Jul 2008]

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Usage Research use only

Conjugate Unconjugated





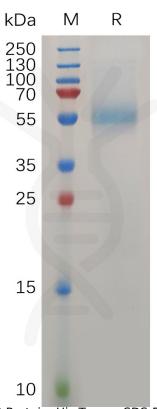


Figure 1. Human ZP3 Protein, His Tag on SDS-PAGE under reducing condition.

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