

PRODUCT INFORMATION

7P3 Target

Synonyms Sperm receptor; ZP3A/ZP3B; Zp-3

Recombinant human ZP3 protein with C-terminal Description

human Fc tag

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

Tag C-Human Fc Tag

Molecular

ZP3(Gln23-Ser386) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of

66.6 kDa after removal of the signal peptide. The apparent molecular mass of ZP3-hFc is **Molecular Weight**

approximately 70-100 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Lyophilized from sterile PBS, pH 7.4. Normally 5 %

Purity

staining.

Formulation &

Storage & Shipping

Background

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Reconstitution

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 rélease 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

Unconjugated Conjugate

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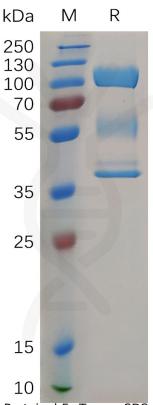


Figure 1. Human ZP3 Protein, hFc Tag on SDS-PAGE under reducing condition.

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