

Recombinant Human ZP1 Protein, His-tagged

Cat. No. ZP1-606H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ZP1 Protein (Cys43-Ser291) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Cys43-Ser291
Description	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 ensures the structural integrity of the zona pellucida. Mutations in this gene are a cause of oocyte maturation defect and infertility.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.1 kDa Accurate Molecular Mass: 32 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by

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accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Storage Buffer

PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.

Reconstitution

Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name

ZP1 zona pellucida glycoprotein 1 (sperm receptor) [Homo sapiens (human)]

Official Symbol

ZP1

Synonyms

ZP1; zona pellucida glycoprotein 1 (sperm receptor); zona pellucida sperm-binding protein 1; zp-1; zona pellucida protein 1; MGC87693

Gene ID

22917

mRNA Refseq

NM_207341

Protein Refseq

NP_997224

MIM

195000

UniProt ID

P60852

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