

ZP3 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	Zona pellucida glycoprotein 3 (Zp-3);Sperm receptor;Zona pellucida protein C;ZP3;ZP3B;ZP3A/ZP3B;ZP3A;Zona pellucida sperm-binding protein 3;ZPC
Protein Construction:	23-387 aa
Species:	Human
Expression Host:	E. coli
Accession:	P21754
Molecular Weight:	56.6 kDa (predicted)
AA Sequence:	<pre>QPLWLLQGGASHPETSVPVLVECQEATLMVMVSKDLFGTGKLRRAADTLGPEACEPLVSMDEDVVRFEV GLHECGNSMQVTDDALVYSTFLLHDPVGNLSIVRTNRAEPIECRYPRQGNVSSQAILPTWLPFRRTTVFSEE KLTFSRLMEENWNAEKRSPTFHLGDA AHLQAEIHTGSHVPLRLFVDHCVATPTPDQNASPYHTIVDFHGCL VDGLTDASSAFKVP RGPDTLQFTVDVFHFANDSRNMIYITCHLKVTLAEQDPDELNKACFSKPSNSWFPVE GSADICCCNKGDCGTPSHSRRQPHVMSQWSRSASRNRRHVTEADVTVGPLIFLDRRGDHEVEQWALPS DTSV</pre>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Component of the zona pellucida, an extracellular matrix surrounding oocytes which mediates sperm binding,

induction of the acrosome reaction and prevents post-fertilization polyspermy. The zona pellucida is composed of 3 to 4 glycoproteins, ZP1, ZP2, ZP3, and ZP4. ZP3 is essential for sperm binding and zona matrix formation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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