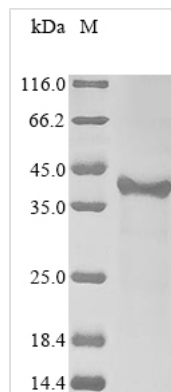




Recombinant Human Izumo sperm-egg fusion protein 1 (IZUMO1), partial

Product Code	CSB-EP812903HU
Abbreviation	Recombinant Human IZUMO1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q8IYV9
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	CVICDPSVVLALKSLEKDYLPGHLDKHHKAMMERVENAVKDFQELSLNEDAY MGVVDEATLQKGSWSLLKDLKRITDSDVKGDLFVKELFWMLHLQKETFATYVA RFQKEAYCPNKCGLVMLQTLIWCKNCKKEVHACRKS YDCGERNVEVPQMEDM ILDCELNWHQASEGLTDYSFYRVWGNNTETLVSKGKEATLTKPMVGPEDAGS YRCELGSVNSSPATIINFHVTVLPKMIKEEKPSPNIVTPGEATTESSISLQPLQPE KMLASR
Research Area	Developmental Biology
Source	E.coli
Target Names	IZUMO1
Protein Names	Recommended name: Izumo sperm-egg fusion protein 1 Alternative name(s): Oocyte binding/fusion factor Short name= OBF Sperm-specific protein izumo
Expression Region	22-292aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	38.1 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The region for expressing recombinant Human IZUMO1 contains amino acids 22-292. This IZUMO1 protein is theoretically predicted to have a molecular weight of 38.1 kDa. This protein is generated in a e.coli-based system. The IZUMO1 gene fragment has been modified by fusing the N-terminal 10xHis tag and C-terminal Myc tag, providing convenience in detecting and purifying the recombinant IZUMO1 protein during the following stages.

The human Izumo sperm-egg fusion protein 1 (IZUMO1) is a transmembrane protein found on the surface of sperm cells. It plays a crucial role in the process of fertilization by mediating the fusion between sperm and egg during gamete interaction. IZUMO1 is essential for establishing the initial contact between the sperm and the egg, leading to the formation of a fertilization pore and subsequent fusion of the two gametes' membranes. The molecular interactions involving IZUMO1 are part of the intricate and highly regulated mechanisms that govern the fusion event, ensuring successful fertilization. Understanding IZUMO1's function provides valuable insights into reproductive biology and potential avenues for contraceptive development.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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