

Recombinant Human IZUMO4, Fc-tagged

Cat. No. IZUMO4-06H Lot. No. (See product label)

SPECIFICATION

Product Overview

A DNA sequence encoding the human C19orf36 (Met1-His214) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

Species

Human

Source

Human Cells

ProteinLength

1-214 a.a.

Description

Izumo is a sperm membrane protein which plays a key role in the fusion in the mouse. It has an Immunoglobulin (Ig) domain and an N-terminal domain for which neither the functions nor homologous sequences are known. Up to now, there four members has an N-terminal domain with significant homology to the N-terminal domain of Izumo. We call this domain Izumo domain. The four proteins are Izumo 1, 2, 3, and 4. Izumo domain possesses the ability to form dimers, whereas the transmembrane domain or the cytoplasmic domain or both of Izumo 1 are required for the formation of multimers of higher order. Izumo 1-3 are transmembrane proteins expressed specifically in the testis, and Izumo 4 is a soluble protein expressed in the testis and in other tissues. Izumo 1, 3, and 4 formed protein complexes on sperm, Izumo 1 forming several larger complexes and Izumo 3 and 4 forming a single larger complex. Co-immunoprecipitation studies showed the presence of other sperm proteins associated with Izumo 1, suggesting Izumo 1 forms a multiprotein membrane complex.

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Predicted N Terminal	Cys 18
Form	Lyophilized from sterile PBS, pH 7.4
Molecular Mass	The recombinant human C19orf36/Fc comprises 438 amino acids and has a predicted molecular mass of 49.8 kDa. The apparent molecular mass of the protein is approximately 55-59 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 96 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	IZUMO4 IZUMO family member 4 [Homo sapiens (human)]
Official Symbol	IZUMO4
Synonyms	IZUMO4; C19orf36; IMAGE:4215339; IZUMO family member 4; izumo sperm-egg

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fusion protein 4; sperm 22 kDa protein c113; putative SAMP14 binding protein variant 1; putative SAMP14 binding protein variant 2

Gene ID [113177](#)

mRNA Refseq [NM_001031735](#)

Protein Refseq [NP_001026905](#)

UniProt ID [Q1ZYL8](#)

Chromosome Location 19p13.3

Pathway Fertilization; Reproduction; Sperm:Oocyte Membrane Binding

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