Human IZUMO4 / C19orf36 Protein (Fc Tag)

Catalog Number: **13249-H02H**

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General Information

Gene Name Synonym:

C19orf36; IMAGE:4215339; 9030607L17Rik; AI550407

Protein Construction:

A DNA sequence encoding the human C19orf36 (Q1ZYL8) (Met1-His214) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 96 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Cys 18

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.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

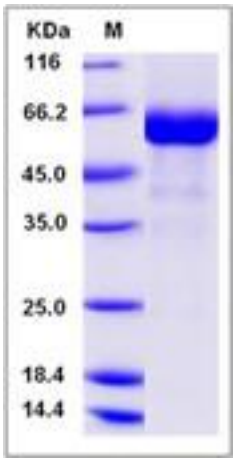
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein 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.

References

1.Gerhard DS, *et al.* (2004) The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Genome Res. 14(10B):2121-7.
2.Lamesch P, *et al.* (2007) hORFeome v3.1: a resource of human open reading frames representing over 10,000 human genes. Genomics. 89(3):307-15.
3.Ellerman DA, *et al.* (2009) Izumo is part of a multiprotein family whose members form large complexes on mammalian sperm. Mol Reprod Dev. 76(12):1188-99.