

---

**Recombinant Human IZUMO4 Protein (Fc Tag)****Cat.NO.: TP06416**

3th Edition

**Synonyms:**C19orf36;IMAGE:4215339;UNQ831/PRO1758

**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.

**Form:**PBS**Molecular Weight:**49.8 kDa**Sequences:**Met 1-His214**Purity:**> 95% by HPLC**Concentration:****Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.