

IZUMO1 recombinant protein

Recombinant Human IZUMO1 Protein (His tag)

CATALOG #
AAA173528

HOST
HEK293 Cells

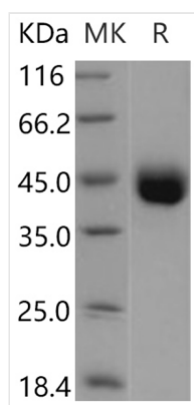
PRODUCT SYNONYMS

IZUMO1; Recombinant Human IZUMO1 Protein (His tag); IZUMO; IZUMO1 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	> 95 % as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from sterile PBS, pH 7.4, 5% trehalose, 5% mannitol, 0.01% tween-80.
Sequence	Met1-Arg29 2
Species	Human
Tag	C-His
Endotoxin	< 1.0 EU per ug as determined by the LAL method.
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water(400 ul) be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months. Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for IZUMO1 recombinant protein	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. Izumo1 is essential for sperm-egg plasma membrane binding and fusion.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	22902472
NCBI GeneID	284359
Molecular Weight	Mol_Mass: 32.1 kDa AP_Mol_Mass: 43 kDa
NCBI Official Full Name	Izumo sperm-egg fusion 1
NCBI Official Synonym Full Names	izumo sperm-egg fusion 1
NCBI Official Symbol	IZUMO1
NCBI Official Synonym Symbols	OBF; IZUMO
NCBI Protein Information	izumo sperm-egg fusion protein 1
UniProt Protein Name	Izumo sperm-egg fusion protein 1
UniProt Gene Name	IZUMO1
UniProt Synonym Gene Names	OBF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.