

Recombinant Mouse Izumo1 Protein, Myc/DDK-tagged

Cat. No. Izumo1-3624M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length izumo sperm-egg fusion 1 (Izumo1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Essential sperm cell-surface protein required for fertilization by acting as a ligand for IZUMO1R/JUNO receptor on egg. The IZUMO1:IZUMO1R/JUNO interaction is a necessary adhesion event between sperm and egg that is required for fertilization but is not sufficient for cell fusion. The ligand-receptor interaction probably does not act as a membrane 'fusogen'.
Molecular Mass	45.3 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	Izumo1 izumo sperm-egg fusion 1 [Mus musculus (house mouse)]
Official Symbol	Izumo1
Synonyms	IZUMO1; izumo sperm-egg fusion 1; izumo sperm-egg fusion protein 1; OBF; oocyte binding/fusion factor; sperm-specific protein Izumo; Izumo; 1700058F15Rik
Gene ID	73456
mRNA Refseq	NM_001018013
Protein Refseq	NP_001018013
UniProt ID	Q9D9J7

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