

## Recombinant Mouse Izumo1 Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length izumo sperm-egg fusion 1 (Izumo1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	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'.
<b>Molecular Mass</b>	45.3 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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**GENE INFORMATION**

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

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