Recombinant Mouse Catsperz Protein, Myc/DDK-tagged

Cat. No. Catsperz-1972M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length cation channel sperm associated auxiliary subunit zeta (Catsperz), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Auxiliary component of the CatSper complex, a complex involved in sperm cell hyperactivation. Sperm cell hyperactivation is needed for sperm motility which is essential late in the preparation of sperm for fertilization. Required for a distribution of the CatSper complex in linear quadrilateral nanodomains along the flagellum, maximizing fertilization inside the mammalian female reproductive tract. Together with EFCAB9, associates with the CatSper channel pore and is required for the two-row structure of each single CatSper channel.
Molecular Mass	22.7 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.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Catsperz cation channel sperm associated auxiliary subunit zeta [Mus musculus (house mouse)]
Official Symbol	Catsperz
Synonyms	Catsperz; cation channel sperm associated auxiliary subunit zeta; Tex40; MLZ-622; 1700019N12Rik; A430107B04Rik; cation channel sperm-associated protein subunit zeta; catSper-zeta; catSperzeta; protein expressed in male leptotene and zygotene spermatocytes 622; testis expressed 40; testis-expressed protein 40; testis-expressed sequence 40 protein
Gene ID	67077
mRNA Refseq	NM_001039494
Protein Refseq	NP_001034583
UniProt ID	Q9CQP8

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