

Product datasheet for TP514418

Catsperz (NM_001039494) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse cation channel sperm associated auxiliary subunit zeta (Catsperz), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR214418 representing NM_001039494 Red =Cloning site Green =Tags(s)
	MEESVKVPKXANHRSSVRSLLYGDVRLWSTATMSTANVSVSDVCEDFDEEGKSVRNRIRKYSQTISI RDSLNLPEEIIQQARRELELCHGRSLEHGEDHEESETSLASSTSESLIFSLWKPRTYWTEQQNRLPLP LMELMETEVL DILKKALITYRSTIGRNHFMTKELQGYIEGIRKRRNKRLYFLDQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	22.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001034583
Locus ID:	67077
UniProt ID:	Q9CQP8
RefSeq Size:	781
Cytogenetics:	19 A



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RefSeq ORF: 582

Synonyms: 1700019N12Rik; A430107B04Rik; MLZ-622

Summary: Auxiliary component of the CatSper complex, a complex involved in sperm cell hyperactivation (PubMed:28226241, PubMed:31056283). Sperm cell hyperactivation is needed for sperm motility which is essential late in the preparation of sperm for fertilization (PubMed:28226241, PubMed:31056283). Required for a distribution of the CatSper complex in linear quadrilateral nanodomains along the flagellum, maximizing fertilization inside the mammalian female reproductive tract (PubMed:28226241). Together with EFCAB9, associates with the CatSper channel pore and is required for the two-row structure of each single CatSper channel (PubMed:31056283).[UniProtKB/Swiss-Prot Function]