

Recombinant Human CATSPER1, GST-tagged

Cat. No. CATSPER1-10746H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CATSPER1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	N-term-302a.a.
Description	This gene encodes a protein that belongs to the centromere protein family. During cell division, this protein plays a structural role in the maintenance of centrosome integrity and normal spindle morphology, and it is involved in microtubule disassembly at the centrosome. This protein can function as a transcriptional coactivator in the Stat5 signaling pathway, and also as a coactivator of NF-kappaB-mediated transcription, likely via its interaction with the coactivator p300/CREB-binding protein. Mutations in this gene are associated with primary autosomal recessive microcephaly, a disorder characterized by severely reduced brain size and mental retardation. Alternatively spliced transcript variants have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	CATSPER1 cation channel, sperm associated 1 [Homo sapiens]
Official Symbol	CATSPER1
Synonyms	CATSPER1; cation channel, sperm associated 1; cation channel sperm-associated protein 1; CATSPER; hCatSper; sperm ion channel; sperm-associated cation channel 1; SPGF7; MGC33335; MGC33368;
Gene ID	117144
mRNA Refseq	NM_053054
Protein Refseq	NP_444282
MIM	606389
UniProt ID	Q8NEC5
Chromosome Location	11q12.1
Function	protein binding; voltage-gated calcium channel activity; voltage-gated ion channel activity;

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