

# Recombinant Full Length Human Cation Channel Sperm-Associated Protein 1(Catsper1) Protein, His-Tagged

**Cat. No.** RFL23864HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human Cation channel sperm-associated protein 1(CATSPER1) Protein (Q8NEC5) (1-780aa), fused to N-terminal His tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | Full Length (1-780)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MDQNSVPEKAQNEADTNNADRRFFRSHSSPPHHRPGHSRALHHYELHHHGVPHQRGESHHP PEFQDFHDQALSSHVHQSHHHSEARNHGRAHGPTGFGGLAPSQGAVPSHRSYGEDYHDELQ RDGRRHHDGSQYGGGFHQQSDSHYHRGSHHGRPQYLGENLSHYSSGVPHHGEASHHGGSYL PHGPNPYSESFHHSEASHLSGLQHDESQHHQVPHRGWPHHHQVHHHGRSRHHEAHQHGKS PHHGETISPHSSVGSYQRGISDYHSEYHQGDHHPSEYHHGDHPHHTQHYYHQTHRHRDYH QHQDHHGAYHSSYLHGDYVQSTSQLSIPHTSRSLIHDAPGPAASRTGVFPYHVAHPRGSA HSMTRSSSTIRSRVTQMSKKVHTQDISTKHSEDWGKEEGQFQKRKTGRLQRTTRKKGHSTN LFQWLWEKLTFLIQGFREMIRNLTQSLAFETFIFFVCLNTVMLVAQTFAEVEIRGEWYF MALDSIFFCIYVVEALLKIIALGLSYFFDFWNNLDFIMAMAVLDLLMQTHSFAIYHQS LFRILKVFKSLRALRAIRVLRRLSFLTSVQEVTGTLGQSLPSIAAILILMFTCLFLFSAV LRALFRKSDP |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KRFQNIFFTIFTLFTLLTDDWSLIYMDSRAQGAWYIIPILVIYIIIQYF IFLNLVITVLVDS  
 FQTALFKGLEKAKQERAARIQEKLEDSLTELRAAEPKEVASEGTML KRLIEKKFGT  
 MTEKQQELLFHYLQLVASVEQEQQKFRSQAVIDEIVDTTFEAGEEDFRN

**Purity** Greater than 90% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

**Storage** Store at -20°C/-80°C upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.

**Storage Buffer** Tris/PBS-based buffer, 6% Trehalose, pH 8.0

**Reconstitution** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## GENE INFORMATION

**Gene Name** CATSPER1

**Synonyms** CATSPER1; Cation channel sperm-associated protein 1; CatSper1; hCatSper

**UniProt ID** [Q8NEC5](#)

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