

## Recombinant Human TRPM7 Protein, GST tagged

**Cat. No.** TRPM7-32H    **Lot. No.** (See product label)

### SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>        | Human TRPM7 partial ORF ( NP_060142.2, 777 a.a. - 855 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>                  | Wheat germ cell free in vitro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>           | 777-855 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>             | TRPCs, mammalian homologs of the Drosophila transient receptor potential (trp) protein, are ion channels that are thought to mediate capacitative calcium entry into the cell. TRP-PLIK is a protein that is both an ion channel and a kinase. As a channel, it conducts calcium and monovalent cations to depolarize cells and increase intracellular calcium. As a kinase, it is capable of phosphorylating itself and other substrates. The kinase activity is necessary for channel function, as shown by its dependence on intracellular ATP and by the kinase mutants. |
| <b>AASequence</b>              | KTKAEMSHIPQSQDAHQMTMDDSENNFQNITEEIPMEVFKEVRILDSNEGKNEMEIQ<br>MKSKKLPITRKFYAFYHAPIVK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>          | 34.43 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Quality Control Testing</b> | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

 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

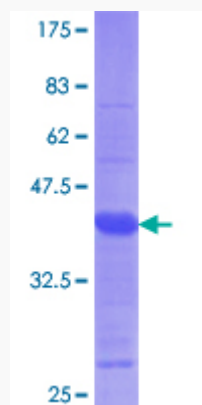
|                         |                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>      | Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein)<br>Antibody Production Protein Array                                                                                                                                                                                                                                                               |
| <b>Note</b>             | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>        | TRPM7 transient receptor potential cation channel subfamily M member 7 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>  | TRPM7                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>         | TRPM7; transient receptor potential cation channel subfamily M member 7; CHAK; CHAK1; ALSPDC; LTRPC7; LTrpC-7; TRP-PLIK; transient receptor potential cation channel subfamily M member 7; LTRPC ion channel family member 7; channel-kinase 1; long transient receptor potential channel 7; transient receptor potential-phospholipase C-interacting kinase; EC 2.7.11.1 |
| <b>Gene ID</b>          | 54822                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>      | NM_017672                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>   | NP_060142                                                                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>              | 605692                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>       | Q6ZMF5                                                                                                                                                                                                                                                                                                                                                                    |

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## SDS-PAGE



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