

# Mouse Transient Receptor Potential Cation Channel Subfamily M, Member 7 (TRPM7) ELISA Kit | TRPM7 elisa kit

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|                              |                            |
|------------------------------|----------------------------|
| CATALOG #<br><b>AAA68738</b> | REACTIVITY<br><b>Mouse</b> |
|------------------------------|----------------------------|

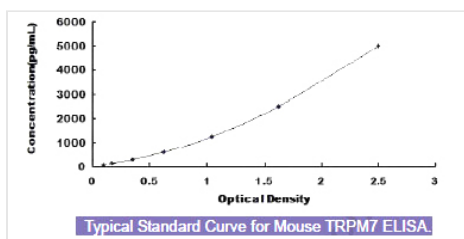
## PRODUCT SYNONYMS

Transient Receptor Potential Cation Channel Subfamily M; Member 7 (TRPM7); Mouse Transient Receptor Potential Cation Channel Subfamily M; Member 7 (TRPM7) ELISA Kit; CHAK; CHAK1; LTRPC7; TRP-PLIK; Channel-kinase 1; Long transient receptor potential channel 7; TRPM7 elisa kit

## PRODUCT SPECIFICATIONS

|                       |                                                                                                                                                                                                           |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity            | Mouse                                                                                                                                                                                                     |
| Specificity           | This assay has high sensitivity and excellent specificity for detection of TRPM7. No significant cross-reactivity or interference between TRPM7 and analogues was observed.                               |
| Sequence Length       | 1862                                                                                                                                                                                                      |
| Samples               | Tissue homogenates or other biological fluids                                                                                                                                                             |
| Assay Type            | Quantitative Sandwich                                                                                                                                                                                     |
| Detection Range       | 78.125-5000pg/mL                                                                                                                                                                                          |
| Sensitivity           | <34pg/mL.                                                                                                                                                                                                 |
| Intra-assay Precision | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TRPM7 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                   |
| Inter-assay Precision | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TRPM7 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12% |

## IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Related Product Information for TRPM7 elisa kit | <p>Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of TRPM7 in mouse tissue homogenates or other biological fluids.</p> <p>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to TRPM7. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to TRPM7. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain TRPM7, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of TRPM7 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                           |
|----------------------------------|-------------------------------------------------------------------------------------------|
| NCBI GI #                        | 256773287                                                                                 |
| NCBI GeneID                      | 58800                                                                                     |
| NCBI Accession #                 | NP_001157797.1                                                                            |
| NCBI GenBank Nucleotide #        | NM_001164325.1                                                                            |
| UniProt Accession #              | Q923J1; Q8C7S7; Q8CE54; Q921Y5; Q925B2; Q9CUT2; Q9JLQ1; A2AI58                            |
| Molecular Weight                 | 212,399 Da                                                                                |
| NCBI Official Full Name          | transient receptor potential cation channel subfamily M member 7 isoform 2                |
| NCBI Official Synonym Full Names | transient receptor potential cation channel, subfamily M, member 7                        |
| NCBI Official Symbol             | Trpm7                                                                                     |
| NCBI Official Synonym Symbols    | CHAK; CHAK1; Ltpr7; Ltrpc7; LTrpC-7; TRPPLIK; 2310022G15Rik; 4833414K03Rik; 5033407O22Rik |
| NCBI Protein Information         | transient receptor potential cation channel subfamily M member 7                          |
| UniProt Protein Name             | Transient receptor potential cation channel subfamily M member 7                          |
| UniProt Gene Name                | Trpm7                                                                                     |
| UniProt Synonym Gene Names       | Chak; Ltrpc7; LTrpC-7; LTrpC7; TRP-PLIK                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/transient-receptor-potential-cation-channel-subfamily-m-member-7-trpm7/68738>