

## Human Solute Carrier Family 12 Member 7 (SLC12A7) ELISA Kit | SLC12A7 elisa kit

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CATALOG #  
**AAA330839**

REACTIVITY  
**Human**

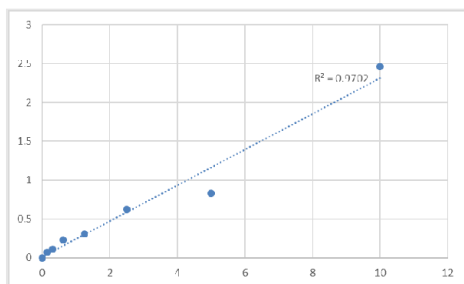
### PRODUCT SYNONYMS

Solute Carrier Family 12 Member 7 (SLC12A7); Human Solute Carrier Family 12 Member 7 (SLC12A7) ELISA Kit; SLC12A7; DKFZp434F076; KCC4; potassium/chloride transporter KCC4; SLC12A7 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | Human Solute carrier family 12 member 7 (SLC12A7) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC12A7. No significant cross-reactivity or interference between Human SLC12A7 and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sequence Length         | 1083                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Assay Type              | Sandwich ELISA (Quantitative)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Samples                 | Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Detection Method        | Colorimetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage Notes             | <ul style="list-style-type: none"> <li>* Do not mix components from different kit lots or use reagents beyond the kit expiration date.</li> <li>* Allow all reagents to warm to room temperature for at least 30 minutes before opening.</li> <li>* Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination.</li> <li>* Unused wells must be kept desiccated at 4 degree C in the sealed bag provided.</li> <li>* Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes.</li> <li>* It is recommended that all samples and standards be assayed in duplicate or triplicate.</li> </ul> |
| Preparation and Storage | Store at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



**Standard Curve (Sample)**

Fig.1. Human Solute carrier family 12 member 7 (SLC12A7) Standard Curve.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Related Product Information for SLC12A7 elisa kit | <p>Description: This Human Solute carrier family 12 member 7 (SLC12A7) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC12A7 in samples. An antibody specific for SLC12A7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC12A7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC12A7 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLC12A7 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: By searching EST databases, Mount et al. (1999) identified a cDNA encoding SLC12A7, which they initially termed KCC3 but later renamed KCC4. The deduced 1,083-amino acid SLC12A7 protein contains 12 membrane-spanning segments, 8 phosphorylation sites, 7 of which are in the C terminus, and 4 potential N-glycosylation sites. SLC12A7 shares 65% amino acid identity with SLC12A4 and 66% identity with SLC12A6. Northern blot analysis detected a 5.3-kb SLC12A7 transcript in most tissues tested, with highest expression in heart and kidney and little or no expression in adult brain. Functional analysis confirmed that SLC12A7 is a KCC.</p> |
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NCBI AND UNIPROT INFORMATION

|                            |                                   |
|----------------------------|-----------------------------------|
| NCBI GI #                  | 123701900                         |
| NCBI GeneID                | 10723                             |
| NCBI Accession #           | NP_006589                         |
| NCBI GenBank Nucleotide #  | NP_006589.2                       |
| UniProt Accession #        | Q9Y666                            |
| NCBI Official Full Name    | solute carrier family 12 member 7 |
| UniProt Protein Name       | Solute carrier family 12 member 7 |
| UniProt Gene Name          | SLC12A7                           |
| UniProt Synonym Gene Names | KCC4                              |
| UniProt Entry Name         | S12A7_HUMAN                       |

**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/human-elisa-kits/solute-carrier-family-12-member-7-slc12a7/330839>