Human Solute carrier family 12 member 1 (SLC12A1) ELISA Kit

Catalog No: #EK7311

Package Size: #EK7311-1 48T #EK7311-2 96T

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Description

Product Name	Human Solute carrier family 12 member 1 (SLC12A1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	BSC1; MGC48843; NKCC2; NKCC2A variant A|Na-K-2Cl cotransporter|sodium potassium chloride cotransporter 2
Accession No.	Q13621
Uniprot	Q13621
GeneID	6557;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.122 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate SLC12A1 in samples. An antibody specific for SLC12A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC12A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC12A1 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 SLC12A1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The Na-K-Cl cotransporters are a family of integral membrane proteins that mediate the coupled transport of Na+, K+, and Cl- across the plasma membrane.NKCC2 protein is encoded in 26 exons, and the coding region spans 80 kb of genomic DNA with introns that range in length from 120 bp to 15 kb. The location of intron/exon boundaries are very similar to those seen in SLC10A3 through exon 19. Three alternative forms of exon 4 are encoded in genomic DNA, as reported in other species.The gene, symbolized SLC12A1 in human and mouse, is structurally related to another Na-K-Cl cotransporter (SLC12A2; previously called NKCC1) which, unlike the kidney-specific SLC12A1, is expressed in many tissues, including the basolateral membrane of secretory epithelia, where it mediates active chloride secretion.

Note: This product is for in vitro research use only