

Recombinant Human SLC12A1

Cat. No. SLC12A1-31410TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human SLC12A1 with N-terminal proprietary tag. Mol Wt 35.86 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	93 amino acids
Description	This gene encodes a kidney-specific sodium-potassium-chloride cotransporter that is expressed on the luminal membrane of renal epithelial cells of the thick ascending limb of Henles loop and the macula densa. It plays a key role in concentrating urine and accounts for most of the NaCl resorption. It is sensitive to such diuretics as furosemide and bumetanide. Some Bartter-like syndromes result from defects in this gene. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional splice variants have been described but their biological validity in humans has not been experimentally proven.
Molecular Weight	35.860kDa inclusive of tags
Tissue specificity	Kidney specific.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	AKTDASFHAYDSHTNTYYLQTFGHNTMDAVPKIEYYRNTGSISGPKVNRPSLLEIHE QLAKNVAVTPSSADRVANGDGIPGDEQAENKEDDQA
Sequence Similarities	Belongs to the SLC12A transporter family.

GENE INFORMATION

Gene Name	SLC12A1 solute carrier family 12 (sodium/potassium/chloride transporters), member 1 [Homo sapiens]
Official Symbol	SLC12A1
Synonyms	SLC12A1; solute carrier family 12 (sodium/potassium/chloride transporters), member 1; solute carrier family 12 member 1; NKCC2;
Gene ID	6557
mRNA Refseq	NM_000338
Protein Refseq	NP_000329
MIM	600839
Uniprot ID	Q13621
Chromosome	15q15-q21

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Location	
Pathway	Cation-coupled Chloride cotransporters, organism-specific biosystem; SLC-mediated transmembrane transport, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem; Transport of inorganic cations/anions and amino acids/oligopeptides, organism-specific biosystem;
Function	ion transmembrane transporter activity; sodium:potassium:chloride symporter activity; symporter activity; transporter activity;

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