



Human SLC12A1 peptide (DAG-P1106)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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.[provided by RefSeq, May 2010]
Specificity	Kidney specific.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the SLC12A transporter family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	SLC12A1 solute carrier family 12 (sodium/potassium/chloride transporter), member 1 [Homo sapiens (human)]
Official Symbol	SLC12A1

Synonyms	SLC12A1; solute carrier family 12 (sodium/potassium/chloride transporter), member 1; BSC1; NKCC2; solute carrier family 12 member 1; NKCC2A variant A; Na-K-2Cl cotransporter; kidney-specific Na-K-Cl symporter; bumetanide-sensitive sodium-(potassium)-chloride cotransporter 2; solute carrier family 12 (sodium/potassium/chloride transporters), member 1;
Entrez Gene ID	6557
mRNA Refseq	NM_000338.2
Protein Refseq	NP_000329.2
UniProt ID	Q13621
Chromosome Location	15q15-q21.1
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	sodium:potassium:chloride symporter activity;