Recombinant Human SLC12A3 protein, His-tagged

Cat. No. SLC12A3-1203H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC12A3 aa. (Glu3~Cys146 fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu3~Cys146
Description	This gene encodes a renal thiazide-sensitive sodium-chloride cotransporter that is important for electrolyte homeostasis. This cotransporter mediates sodium and chloride reabsorption in the distal convoluted tubule. Mutations in this gene cause Gitelman syndrome, a disease similar to Bartter's syndrome, that is characterized by hypokalemic alkalosis combined with hypomagnesemia, low urinary calcium, and increased renin activity associated with normal blood pressure. This cotransporter is the target for thiazide diuretics that are used for treating high blood pressure. Multiple transcript variants encoding different isoforms have been found for this gene
Form	Freeze-dried powder
Molecular Mass	22kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>92%

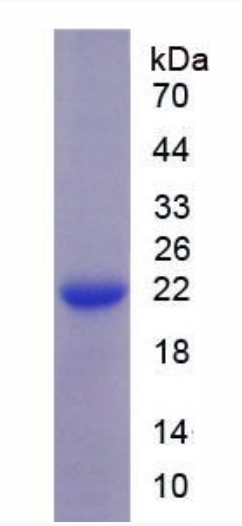
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Characteristic	The isoelectric point is 5.9.
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200μg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	SLC12A3 solute carrier family 12 member 3 [Homo sapiens (human)]
Official Symbol	SLC12A3
Synonyms	SLC12A3; solute carrier family 12 member 3; NCC; TSC; NCCT; Na-Cl cotransporter; Na-Cl symporter; NaCl electroneutral thiazide-sensitive cotransporter; solute carrier family 12 (sodium/chloride transporter), member 3; thiazide-sensitive Na-Cl cotransporter; thiazide-sensitive sodium-chloride cotransporter

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Gene ID	6559
mRNA Refseq	NM_000339.2
Protein Refseq	NP_000330.2
UniProt ID	P55017
SDS-PAGE	

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