

Recombinant Human SLC12A3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SLC12A3-6672H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SLC12A3 MS Standard C13 and N15-labeled recombinant protein (NP_000330) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	113.7 kDa
AA Sequence	MAELPTTETPGDATLCSGRFTISTLLSSDEPSPPAAYDSSHPSHLTHSSTFCMRTFG YNTIDVVPTYEHYANSTQPGEPKVRPTLADLHSFLKQEGRHLHALAFDSRPSHEM TDGLVEGEAGTSSEKNPEEPVRFGWVKGVMIRCMLNIWGVILYLRLPWITAQAGIVL TWIIILLSVTVTSITGLSISAISTNGKVKSGGTYFLISRSLGPELGGSIGLIFAFANAVGVA MHTVGFAETVRDLLQEYGAPIVDPINDIRIIGVVSVTVLLAISLAGMEWESKAQVLFFL

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VIMVSFANYLVGTLIPPSSEDKASKGFFSYRADIFVQNLVPDWRGPDGTFFGMFSIFFP
 SATGILAGANISGDLKDPAIAIPKGTLMAIFWTTISYLAISATIGSCVVRDASGVLNDTV
 TPGWGACEGLACSYGWNFTECTQQHSCHYGLINYYQTMSMVSGFAPLITAGIFGAT
 LSSALACLVSAAKVQCLCEDQLYPLIGFFGKGYGKNKEPVRGYLLAYAIAVAFIIIAEL
 NTIAPIISNFFLCSYALINFSCFHASITNSPGWRPSFQYYNKWAALFGAIISSVIMFLT
 WWAALIAIGVVLFLLLYVIYKKPEVNWGSSVQAGSYNLALSYSVGLNEVEDHIKNYRP
 QCLVLTGPPNFRPALVDFVGTFTRNLSLMICGHVLIGPHKQRMPELQLIANGHTKWL
 NKRKIKAFYSDVIAEDLRRGVQILMQAAGLGRMKPNILVVGFKKNWQSAHPATVEDY
 IGILHDAFDFNYGVCVMRMREGLNVSKMMQAHINPVFDPAEDGKEASARGARPSVS
 GALDPKALVKEEQATTIFQSEQGKKTIDIYWLFDGGLTLLIPYLLGRKRRWSKCKIR
 VFVGGQINRMDQERKAIISLLSKFRLGFHEVHILPDINQNPRAEHTKRFEDMIAPFRLN
 DGFKDEATVNEMRRDCPWKISDEEITKNRVKSLRQVRLNEIVLDYSRDAALIVITLPIG
 RKGKCPSSLYMAWLETLSQDLRPPVILIRGNQENVLTFYCQTRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SLC12A3 solute carrier family 12 member 3 [Homo sapiens (human)]

Official Symbol SLC12A3

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Synonyms	SLC12A3; solute carrier family 12 (sodium/chloride transporters), member 3; solute carrier family 12 member 3; NCCT; Na-Cl symporter; thiazide-sensitive Na-Cl cotransporter; thiazide-sensitive sodium-chloride cotransporter; NaCl electroneutral thiazide-sensitive cotransporter; TSC; FLJ96318;
Gene ID	6559
mRNA Refseq	NM_000339
Protein Refseq	NP_000330
MIM	600968
UniProt ID	P55017
SDS-PAGE	