

Recombinant Full Length Human SLC12A3 Protein, C-Flag-tagged

Cat. No. SLC12A3-1562HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SLC12A3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	113.7 kDa
AA Sequence	MAELPTTETPGDATLCSGRFTISTLLSSDEPSPPAAYDSSHPSHLTHSSTFCMRTFG YNTIDVVPTYEHY ANSTQPGEPKVRPTLADLHSFLKQEGRHLHALAFDSRPSHEM TDGLVEGEAGTSSEKNPEEPVRFGWVK GVMIRCMLNIWGVILYLRLPWITAQAGIVL TWIILLSVTVTSITGLSISAISTNGKVKSGGTYFLISRS LGPELGGSIGLIFAFANAVGV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AMHTVGFAETVRDLLQEYGAPIVDPINDIRIIGVSVTVLLAISLAGME WESKAQVLFF
 LVIMVSFANYLVGTLIPPSSEDKASKGFFSYRADIFVQNLVPDWRGPDGTFFGMFSIFF
 PS ATGILAGANISGDLKDPAIAIPKGTLMAlFWTTISYLAISATIGSCVVRDASGVLNDT
 VTPGWGACEGLA CSYGWNFTECTQQHSCHYGLINYYQTMSMVSGFAPLITAGIFG
 ATLSSALACLVSAAKVFQCLCEDQLYP LIGFFGKGYGKNKEPVRGYLLAYAI AVAFIII
 AELNTIAPIISNFFLCSYALINFSCFHASITNSPGWRP SFQYYNKWAALFGAII SVVIMF
 LLTWWAALIAIGVVLFLLLYVIYKKPEVNWGSSVQAGSYNLALSYSVG LNEVEDHIKN
 YRPQCLVLTGPPNFRPALVDFVGTFRNL SLMICGHVLIGPHKQRMPELQLIANGHT
 KWL NKRKIKAFYSDVIAEDLRRGVQILMQAAGLGRMKPNILVVGFKKNWQSAHPAT
 VEDYIGILHDAFDNYG VCVMRMREGLNVSKMMQAHINPVFDPAEDGKEASARGA
 RPSVSGALDPKALVKEEQATTIFQSEQGKKTl DIYWLFDDGGLTLLIPYLLGRKRRW
 SKCKIRVFVGGQINRMDQERKAIISLLSKFRLGFHEVHILPDINQ NPRAEHTKRFEDM
 IAPFRLNDGFKDEATVNEMRRDCPWKISDEEITKNRVKSLRQVRLNEIVLDYSRDAA
 LIVITLPIGRKGKCPSSLYMAWLETLSQDLRPPVILIRGNQENVLTFYCQTRTRPLEQK
 LISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane

Full Length
Full L.

GENE INFORMATION

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

Official Symbol SLC12A3

Synonyms NCC; TSC; NCCT

Gene ID 6559

mRNA Refseq NM_000339.3

Protein Refseq NP_000330.3

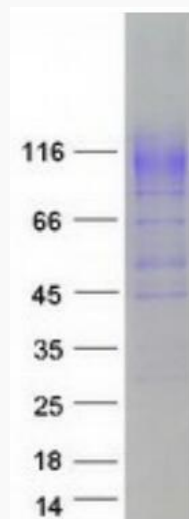
MIM 600968

UniProt ID P55017

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Coomassie blue staining of purified SLC12A3 protein.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA