

Recombinant Mouse Slc12a5 Protein, Myc/DDK-tagged

Cat. No. Slc12a5-5904M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length solute carrier family 12, member 5 (Slc12a5), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Mediates electroneutral potassium-chloride cotransport in mature neurons and is required for neuronal Cl ⁻ homeostasis. As major extruder of intracellular chloride, it establishes the low neuronal Cl ⁻ levels required for chloride influx after binding of GABA-A and glycine to their receptors, with subsequent hyperpolarization and neuronal inhibition. Involved in the regulation of dendritic spine formation and maturation.
Molecular Mass	124 kDa
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 after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Slc12a5 solute carrier family 12, member 5 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Slc12a5](#)

Synonyms SLC12A5; solute carrier family 12, member 5; solute carrier family 12 member 5; mKCC2; K-Cl cotransporter 2; neuronal K-Cl cotransporter; electroneutral potassium-chloride cotransporter 2; KCC2; mKIAA1176

Gene ID [57138](#)

mRNA Refseq [NM_020333](#)

Protein Refseq [NP_065066](#)

UniProt ID [Q91V14](#)

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