

Recombinant Human SLC4A4, His-tagged

Cat. No. SLC4A4-31418TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human SLC4A4 with a 37 amino acid N terminal His tag; 460 amino acids, predicted MWt 51.5 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	424 amino acids
Description	This gene encodes a sodium bicarbonate cotransporter (NBC) involved in the regulation of bicarbonate secretion and absorption and intracellular pH. Mutations in this gene are associated with proximal renal tubular acidosis. Multiple transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	51.500kDa inclusive of tags
Tissue specificity	Isoform 1 is expressed in pancreas and to a lower extent in heart, skeletal muscle, liver, parotid salivary glands, prostate, colon, stomach, thyroid, brain and spinal chord. Corneal endothelium cells express only isoform 1 (at protein level). Isoform 2 i
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	pH: 7.50 Constituents: 0.32% Tris HCl, 0.01% DTT, 0.002% PMSF, 10% Glycerol
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSTE NVEGKPSNLG ERGRARSSTF LRVVQPMFNH SIFTSVSPA AERIRFILGEEDDSPAPPQL FTELDELLAV DGQEMEWKET ARWIKFEEKV EQGGERWSKP HVATLSLHSL FELRTCMEKG SIMLDREASS LPQLVEMIVD HQIETGLLKP ELKDKVITYTL LRKHRHQTKK SNLRSLADIG KTVSSASRMF TNPNGSPAM THRNLTSSSL NDISDKPEKD QLKNKFMKKLPRDAEASNVL VGEVDFLDTP FIAFVRLQQA VMLGALTEVP VPTRFLFILL GPKGKAKSYH EIGRAIATLM SDEVFHDIAI KAKDRHDLIA GIDEFLDEVI VLPPGEWDPA IRIEPPKSLP SSDKRKNMYS GGENVQMNGD TPHDGGHGGG GHGDCEELQR TGRFCGGLIK DIKRKAPFFASDFYDALNIQ
Sequence Similarities	Belongs to the anion exchanger (TC 2.A.31) family.
GENE INFORMATION	
Gene Name	SLC4A4 solute carrier family 4, sodium bicarbonate cotransporter, member 4 [Homo sapiens]
Official Symbol	SLC4A4
Synonyms	SLC4A4; solute carrier family 4, sodium bicarbonate cotransporter, member 4; SLC4A5; electrogenic sodium bicarbonate cotransporter 1; hhNMC; HNBC1; NBC1; NBC2; pNBC;
Gene ID	8671

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mRNA Refseq	NM_001098484
Protein Refseq	NP_001091954
MIM	603345
Uniprot ID	Q9Y6R1
Chromosome Location	4q21
Pathway	Bicarbonate transporters, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Pancreatic secretion, organism-specific biosystem; Pancreatic secretion, conserved biosystem;
Function	anion transmembrane transporter activity; inorganic anion exchanger activity; protein binding; sodium:bicarbonate symporter activity; symporter activity;

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