

Recombinant Human SLC4A4, His-tagged

Cat. No. SLC4A4-31419TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-424 of human SLC4A4 fused to His tag at N-terminus; 460 amino acids, 51.5 kDa.
Species	Human
Source	E.coli
ProteinLength	1-424 a.a.
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
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
Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 20mM Tris HCl, 0.5mM DTT, 0.1mM

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	PMSF, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSTE NVEGKPSNLG ERGRARSSTF LRVVQPMFNH SIFTSVSPA AERIRFILGE EDDSPAPPQL FTELDELLAV DGQEMEWKET ARWIKFEEKV EQGGERWSKP HVATLSLHSL FELRTCMEKG SIMLDREASS LPQLVEMIVD HQIETGLLKP ELKDKVITYTL LRKHRHQTKK SNLRSLADIG KTVSSASRMF TNPNGSPAM THRNLTSSSL NDISDKPEKD QLKNKFMKKL PRDAEASNVL VGEVDFLDTF FIAFVRLQQA VMLGALTEVP VPTRFLFILL GPKGKAKSYH EIGRAIATLM SDEVFHDIAI KAKDRHDLIAGIDEFLDEVI VLPPGEWDPA IRIEPPKSLP SSDKRKNMYS GGENVQMNGD TPHDGGHGGG GHGDCEELQR TGRFCGGLIK DIKRKAPFFA SDFYDALNIQ
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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