

Recombinant Human SLC4A4 , His-tagged

Cat. No. SLC4A4-505H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SLC4A4, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW=51.5kDa.
Species	Human
Source	E.coli
Description	Sodium bicarbonate cotransporters (NBCs) mediate the coupled movement of sodium and bicarbonate ions across the plasma membrane of many cells. This is an electrogenic process with an apparent stoichiometry of 3 bicarbonate ions per sodium ion. NBC1 has been identified as a key player for regulation of intracellular pH in several cell types. NBC1 Isoform 2 is specifically expressed in kidney at the level of proximal tubules.
Amino Acid Sequence	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 VGEVDFLDTP FIAFVRLQQA VMLGALTEVP VPTRFLFILL GPKGKAKSYH EIGRAIATLM SDEVFHDIA Y KAKDRHDLIA GIDEFLDEVI VLPPGEWDPA IRIEPPKSLP SSDKRKNMYS GGENVQMNGD TPHDGGHGGG GHGDCEELQR TGRFCGGLIK DIKRKAPFFA SDFYDALNIQ.

 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

From	Liquid. In 20mM Tris-HCl buffer (pH7.5) containing 0.5mM DTT, 0.1mM PMSF, 10% glycerol.
Purity	>90% by SDS-PAGE.
Concentration	0.5mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	SLC4A4 solute carrier family 4, sodium bicarbonate cotransporter, member 4 [Homo sapiens]
Synonyms	SLC4A4; solute carrier family 4, sodium bicarbonate cotransporter, member 4; KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314; Electrogenic sodium bicarbonate cotransporter 1; Sodium bicarbonate cotransporter; Na(+)/HCO3(-) cotransporter; Solute carrier family 4 member 4; kNBC1; NBC; NBCE1; DKFZp781H1314; solute carrier family 4, sodium bicarbonate cotransporter, member 5; sodium bicarbonate cotransporter 1 (sodium bicarbonate cotransporter, kidney; sodium bicarbonate cotransporter, pancreas)
Gene ID	8671
mRNA Refseq	NM_001098484
Protein Refseq	NP_001091954
MIM	1603345
UniProt ID	Q9Y6R1

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Chromosome Location	4q21
Pathway	Transmembrane transport of small molecules
Function	anion transmembrane transporter activity; inorganic anion exchanger activity; sodium ion binding; sodium:bicarbonate symporter activity; symporter activity; transporter activity

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