

Product information



NBC1, 1-424aa

Human, His-tagged, Recombinant, *E.coli*

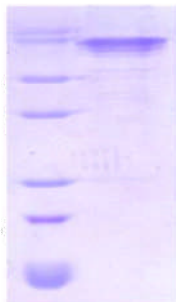
Cat. No. IBATGP0293

Full name: Electrogenic sodium bicarbonate cotransporter 1, isoform2

NCBI Accession No.: NP_003750

Synonyms: SLC4A4, NBCE1, Na(+)/HCO3(-) cotransporter, Solute carrier family 4 member 4

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. Recombinant human NBC1, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

<p>Form: Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 0.5mM DTT, 0.1mM PMSF, 10% glycerol</p> <p>Molecular Weight: 51.5 kDa (460aa)</p> <p>Purity: > 90% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p>	<p>(kDa)</p>  <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMTSE NVEGKPSNLG ERGRARSSTF LRVVQPMFNH SIFTSAVSPA AERIRFILGE EDDSPAPPQL FTELDELLAV DQGEMEWKET ARWIKFEEKV EQGGERWSKP HVATLSLHSL FELRTCMEKG SIMLDREASS LPQLVEMIVD HQIETGLLKP ELKDKVYTYL LRKHRHQTKK SNLRSADIG KTVSSASRMF TNPDNGSPAM THRNLTSSSL NDISDKPEKD QLKNKFMKKL PRDAEASNVL VGEVDFLDTP FIAFVRLQQA VMLGALTEVP VPTRFLFILL GPKGKAKSYH EIGRAIATLM SDEVFHDIAK KAKDRHDLIA GIDFLDEVI VLPPGEWOPA IRIEPPKSLP SSDKRKNMYS GGENVQMNGD TPHDGGHGGG GHGDCEELQR TGRFCGGLIK DIKRKAPFFA SDFYDALNIQ</p>	

General references:

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Rickmann M., *et al.* (2007). *J Biol Chem.* **146**(3):1220-31

Zhu Q., *et al.* (2009). *J Biol Chem.* **284**(13):8918-29

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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