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**NBC1, 1-424aa, Human, His-tagged, Recombinant, E.coli**

**Cat.NO.: TP03100**

3th Edition

**Synonyms:**Electrogenic sodium bicarbonate cotransporter 1, isoform2, SLC4A4, NBCE1, Na(+)/HCO<sub>3</sub>(-) 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.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 0.5mM DTT,0.1mM PMSF, 10% glycerol

**Molecular Weight:**51.5 kDa (460aa)

**Sequences:**

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMTSTENVEGKPSNLGERGRARSSTFLRVVQPMFNHSI  
FTSAVSPAERIRFILGEEDDSPAPPQLFTELDSELLAVDQGEMEWKETARWIKFEEKVEQGGERWSKPHVATLSLH  
SLFELRTCMEKGSIMLDREASSLPQLVEMIVDHQIETGLLKPELKDKVITYLLRKHRHQTKKSNLRLSLADIGKTVSSA  
SRMFTNPDNGSPAMTHRNLTSSSLNDISDKPEKDKLKNKFMKKLPRDAEASNVLVGEVDFLDTPFIAFVRLQQAVM  
LGALTEVPVPTRFLFILLGPKGKAKSYHEIGRAIATLMSDEVFHDIAKAKDRHDLIAGIDEFLDEVIVLPPGEWDPAIRI  
EPPKSLPSSDKRKNMYSGGENVQMNGDTPHDGGHGGGGHGDCEELQRTGRFCGGLIKDIKRKAPFFASDFYDAL  
NIQ

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.