
Product Data Sheet

Product Name: SLC4A4 Human
 Cat. No.: GP24607
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	KNBC; NBC1; NBC2; Pnbc; HNBC1; hhNMC; SLC4A5; DKFZp781H1314; SLC4A4; Electrogenic sodium bicarbonate cotransporter 1; Sodium bicarbonate cotransporter; Na(+)/HCO3(-) cotransporter; Solute carrier family 4 member 4; kNBC1; NBC; NBCE1.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSTE NVEGKPSNLG ERGRARSSTF LRVVQPMFNH SIFTSVAVSPA AERIRFILGEEDDSPAPPQL FTELDELLAV DGQEMEWKET ARWIKFEEKV EQGGERWSKP HVATLSLHSL FELRTCMEKG SIMLDREASS LPQLVEMIVDHQIETGLLKP ELKDKVITYTL LRKHRHQTKK SNLRSLADIG KTVSSASRMF TNPDNGSPAM THRNLTSSSL NDISDKPEKD QLNKFMKKLPRDAEASNVL VGEVDFLDTP FIAFVRLQQA VMLGALTEVP VPTRFLFILL GPKGKAKSYH EIGRAIATLM SDEVFHDIAIY KAKDRHDLIAGIDEFLDEVI VLPPGEWDPA IRIEPPKSLP SSDKRKNMYS GGENVQMNGD TPHDGGHGGG GHGDCEELQR TGRFCGGLIK DIKRKAPFFASDFYDALNIQ.		
Formulation	The SLC4A4 protein solution contains 20mM Tris-HCl, pH-7.5, 0.5mM DTT, 0.1mM PMSF and 10% glycerol.		

Introduction

SLC4A4 takes part in the regulation of bicarbonate secretion and absorption and intracellular pH. Mutations in SLC4A4 gene are associated with proximal renal tubular acidosis. SLC4A4 is involved in the regulation of intracellular pH in several cell types. SLC4A4 Isoform 2 is particularly expressed in kidney at the level of proximal tubules. Amino acid substitution in SLC4A4 results in an increase of chloride transport. NBC1 takes part in proximal renal tubular acidosis and ocular abnormalities.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

SLC4A4 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 460 amino acids (1-424 a.a.) and having a molecular mass of 51.5 kDa. SLC4A4 is fused to 37 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA