

HUMAN SLC4A7 PROTEIN, HIS TAG**Cat.#:** 11472**Product Name:** Human SLC4A7 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** NBC2;NBC3;NBCN1;SBC2;SLC4A6**Target:** SLC4A7**UNIPROT ID:** Q9Y6M7**Description:** Recombinant human SLC4A7 protein with C-terminal 6xHis tag**Background:** This locus encodes a sodium bicarbonate cotransporter. The encoded transmembrane protein appears to transport sodium and bicarbonate ions in a 1:1 ratio, and is thus considered an electroneutral cotransporter. The encoded protein likely plays a critical role in regulation of intracellular pH involved in visual and auditory sensory transmission. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Apr 2012]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 68.6 kDa after removal of the signal peptide. The apparent molecular mass of SLC4A7-His is approximately 100-130 kDa due to glycosylation.**Molecular Characterization:** SLC4A7(Met1-Cys608) 6xHis tag**Purity:** The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

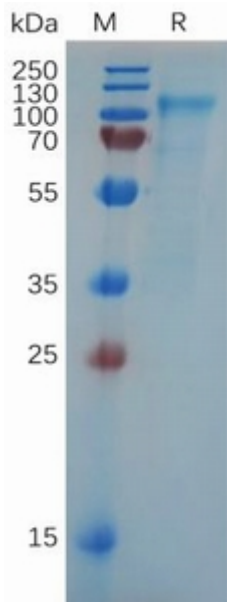


Figure 1. Human SLC4A7 Protein, His Tag on SDS-PAGE under reducing condition.