

**HUMAN KCNK9 PROTEIN, HFC TAG****Cat.#:** 11460**Product Name:** Human KCNK9 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** K2p9.1;KT3.2;TASK-3;TASK3**Target:** KCNK9**UNIPROT ID:** Q9NPC2**Description:** Recombinant Human KCNK9 with C-terminal human Fc tag**Background:** This gene encodes a protein that contains multiple transmembrane regions and two pore-forming P domains and functions as a pH-dependent potassium channel. Amplification and overexpression of this gene have been observed in several types of human carcinomas. This gene is imprinted in the brain, with preferential expression from the maternal allele. A mutation in this gene was associated with Birk-Barel dysmorphism syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2017]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 32.2 kDa after removal of the signal peptide. The apparent molecular mass of KCNK9-hFc is approximately 35-55 kDa due to glycosylation.**Molecular Characterization:** KCNK9(Glu30-Lys79) hFc(Glu99-Ala330)**Purity:** The purity of the protein is greater than 95% 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 KCNK9 Protein, hFc Tag on SDS-PAGE under reducing condition.