

HUMAN SLC2A4 PROTEIN, HFC TAG**Cat.#:** 11459**Product Name:** Human SLC2A4 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** GLUT4**Target:** SLC2A4**UNIPROT ID:** P14672**Description:** Recombinant Human SLC2A4 with C-terminal human Fc tag**Background:** This gene is a member of the solute carrier family 2 (facilitated glucose transporter) family and encodes a protein that functions as an insulin-regulated facilitative glucose transporter. In the absence of insulin, this integral membrane protein is sequestered within the cells of muscle and adipose tissue. Within minutes of insulin stimulation, the protein moves to the cell surface and begins to transport glucose across the cell membrane. Mutations in this gene have been associated with noninsulin-dependent diabetes mellitus (NIDDM). [provided by RefSeq, Jul 2008]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 29.7 kDa after removal of the signal peptide. The apparent molecular mass of SLC2A4-hFc is approximately 35–55 kDa due to glycosylation.**Molecular Characterization:** SLC2A4(Asn46–Thr78) 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 SLC2A4 Protein, hFc Tag on SDS-PAGE under reducing condition.