

HUMAN VPS4 PROTEIN, HIS TAG**Cat.#:** 11831**Product Name:** Human VPS4 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** CIMDAG;SKD1;SKD1A;SKD2;VPS4A;VPS4-1**Target:** VPS4**UNIPROT ID:** Q9UN37**Description:** Recombinant Human VPS4 Protein with C-terminal 6xHis tag**Background:** The protein encoded by this gene is a member of the AAA protein family (ATPases associated with diverse cellular activities), and is the homolog of the yeast Vps4 protein. In humans, two paralogs of the yeast protein have been identified. The former share a high degree of aa sequence similarity with each other, and also with yeast Vps4 and mouse Skd1 proteins. The mouse Skd1 (suppressor of K transport defect 1) has been shown to be really an yeast Vps4 ortholog. Functional studies indicate that both human paralogs associate with the endosomal compartments, and are involved in intracellular protein trafficking, similar to Vps4 protein in yeast. The gene encoding this paralog has been mapped to chromosome 16; the gene for the other resides on chromosome 18. [provided by RefSeq, Jul 2008]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 49.7 kDa after removal of the signal peptide. The apparent molecular mass of VPS4-His is approximately 55-70 kDa due to glycosylation.**Molecular Characterization:** VPS4(Met1-Ser437) 6×His 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 VPS4 Protein, His Tag on SDS-PAGE under reducing condition.