

HUMAN DSG2(24-609) PROTEIN, HIS TAG**Cat.#:** 11944**Product Name:** Human DSG2(24-609) Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** CDHF5;HDGC**Target:** DSG2**UNIPROT ID:** Q14126**Description:** Recombinant Human DSG2(24-609) Protein with C-terminal 6xHis tag**Background:** This gene encodes a member of the desmoglein family and cadherin cell adhesion molecule superfamily of proteins. Desmogleins are calcium-binding transmembrane glycoprotein components of desmosomes, cell-cell junctions between epithelial, myocardial, and other cell types. The encoded preproprotein is proteolytically processed to generate the mature glycoprotein. This gene is present in a gene cluster with other desmoglein gene family members on chromosome 18. Mutations in this gene have been associated with arrhythmogenic right ventricular dysplasia, familial, 10. [provided by RefSeq, Jan 2016]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 66.4 kDa after removal of the signal peptide. The apparent molecular mass of DSG2(24-609)-His is approximately 70-100 kDa due to glycosylation.**Molecular Characterization:** DSG2(Leu24-Gly609) 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 DSG2(24-609) Protein, His Tag on SDS-PAGE under reducing condition.