

**HUMAN RSP01(21-263) PROTEIN, HIS TAG****Cat.#:** 11567**Product Name:** Human RSP01(21-263) Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** R-spondin-1;hRspo1**Target:** RSP01**UNIPROT ID:** Q2MKA7**Description:** Recombinant human RSP01(21-263) protein with C-terminal 6xHis tag

**Background:** This gene encodes a secreted activator protein with two cysteine-rich, furin-like domains and one thrombospondin type 1 domain. The encoded protein is a ligand for leucine-rich repeat-containing G-protein coupled receptors (LGR proteins) and positively regulates the Wnt signaling pathway. In mice, the protein induces the rapid onset of crypt cell proliferation and increases intestinal epithelial healing, providing a protective effect against chemotherapy-induced adverse effects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 27.6 kDa after removal of the signal peptide. The apparent molecular mass of RSP01(21-263)-His is approximately 35-55 kDa due to glycosylation.

**Molecular Characterization:** RSP01(21-263)(Ser21-Ala263) 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 RSP01(21-263) Protein, His Tag on SDS-PAGE under reducing condition.