

HUMAN ANGPT2(275-496) PROTEIN, HIS TAG**Cat.#:** 11871**Product Name:** Human ANGPT2(275-496) Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** AGPT2;ANG2;LMPHM10**Target:** ANGPT2**UNIPROT ID:** O15123**Description:** Recombinant Human ANGPT2(275-496) Protein with C-terminal 6xHis tag**Background:** This gene belongs to the angiopoietin family of growth factors. The protein encoded by this gene is an antagonist of angiopoietin 1, and both angiopoietin 1 and angiopoietin 2 are ligands for the endothelial TEK receptor tyrosine kinase. Angiopoietin 2 is upregulated in multiple inflammatory diseases and is implicated in the direct control of inflammation-related signaling pathways. The encoded protein affects angiogenesis during embryogenesis and tumorigenesis, disrupts the vascular remodeling ability of angiopoietin 1, and may induce endothelial cell apoptosis. This gene serves a prognostic biomarker for acute respiratory distress syndrome. [provided by RefSeq, Aug 2020]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 26.3 kDa after removal of the signal peptide. The apparent molecular mass of ANGPT2(275-496)-His is approximately 25-35 kDa due to glycosylation.**Molecular Characterization:** ANGPT2(Lys275-Phe496) 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 ANGPT2(275-496) Protein, His Tag on SDS-PAGE under reducing condition.