

HUMAN APOH PROTEIN**Cat.#:** 12270**Product Name:** Human APOH Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** BG;B2G1;B2GP1**Target:** APOH**UNIPROT ID:** P02749**Description:** Recombinant human APOH Protein with C-terminal 6xHis tag

Background: Apolipoprotein H, also known as beta-2-glycoprotein I, is a component of circulating plasma lipoproteins. It has been implicated in a variety of physiologic pathways including lipoprotein metabolism, coagulation, hemostasis, and the production of antiphospholipid autoantibodies. APOH may be a required cofactor for anionic phospholipid binding by the antiphospholipid autoantibodies found in sera of many patients with lupus and primary antiphospholipid syndrome (APS). The anti-beta (2) glycoprotein I antibodies from APS patients, mediate inhibition of activated protein C which has anticoagulant properties. Because beta-2-GPI is the main autoantigen in patients with APS, the disruption of this pathway by autoantibodies may be an important mechanism for thrombosis in patients with APS.[provided by RefSeq, Dec 2019]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 37.1 kDa after removal of the signal peptide. The apparent molecular mass of APOH-His is approximately 35–70 kDa due to glycosylation.

Molecular Characterization: APOH(Gly20–Cys345) 6xHis 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 APOH Protein, His Tag on SDS-PAGE under reducing condition.