

## HUMAN IL1A PROTEIN, HFC TAG

**Cat.#:** 11735

**Product Name:** Human IL1A Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** IL-1 alpha;IL-1A;IL1;IL1-ALPHA;IL1F1

**Target:** IL1A

**UNIPROT ID:** P01583

**Description:** Recombinant Human IL1A Protein with C-terminal human Fc tag

**Background:** The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq, Jul 2008]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 44.2 kDa after removal of the signal peptide. The apparent molecular mass of IL1A-hFc is approximately 35-55 kDa due to glycosylation.

**Molecular Characterization:** IL1A(Ser113-Ala271) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 90% 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.

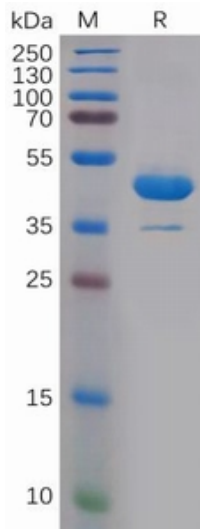


Figure 1. Human IL1A Protein, hFc Tag on SDS-PAGE under reducing condition.

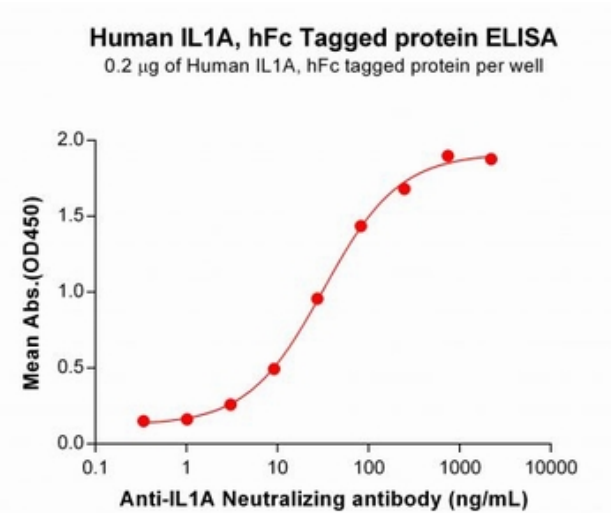


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human IL1A Protein, hFc Tag ( 11735) can bind Anti-IL1A Neutralizing antibody 28097 in a linear range of 3.05-740.74 ng/mL.