

## HUMAN TGFA PROTEIN, HFC TAG

**Cat.#:** 11737

**Product Name:** Human TGFA Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** TGF- $\alpha$ ;ETGF;TGF type I

**Target:** TGFA

**UNIPROT ID:** P01135

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

**Background:** This gene encodes a growth factor that is a ligand for the epidermal growth factor receptor, which activates a signaling pathway for cell proliferation, differentiation and development. This protein may act as either a transmembrane-bound ligand or a soluble ligand. This gene has been associated with many types of cancers, and it may also be involved in some cases of cleft lip/palate. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 34.1 kDa after removal of the signal peptide. The apparent molecular mass of TGFA-hFc is approximately 35-55 kDa due to glycosylation.

**Molecular Characterization:** TGFA(Glu24-Gln98) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% 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  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at  $-80^{\circ}\text{C}$  (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

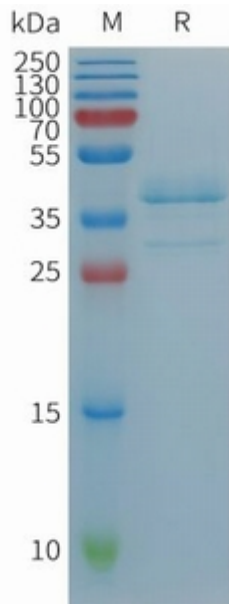


Figure 1. Human TGFA Protein, hFc Tag on SDS-PAGE under reducing condition.