

**HUMAN TMIGD2 PROTEIN, HFC TAG**

**Cat.#:** 11519

**Product Name:** Human TMIGD2 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** CD28 homolog;IGPR-1

**Target:** TMIGD2

**UNIPROT ID:** Q96BF3

**Description:** Recombinant human TMIGD2 protein with C-terminal human Fc tag

**Background:** Plays a role in cell-cell interaction, cell migration, and angiogenesis. Through interaction with HHLA2, costimulates T-cells in the context of TCR-mediated activation. Enhances T-cell proliferation and cytokine production via an AKT-dependent signaling cascade.[UniProtKB/Swiss-Prot Function]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 40.1 kDa after removal of the signal peptide. The apparent molecular mass of TMIGD2-hFc is approximately 55–70 kDa due to glycosylation.

**Molecular Characterization:** TMIGD2(Leu23–Gly150) 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°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.

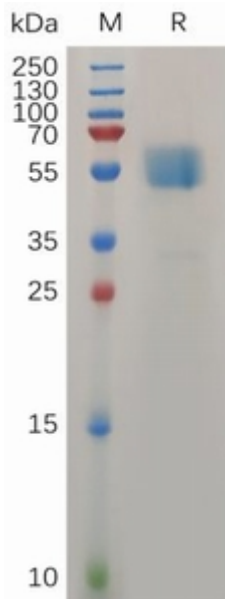


Figure 1. Human TMIGD2 Protein, hFc Tag on SDS-PAGE under reducing condition.