

## HUMAN ACVR1C PROTEIN, HFC TAG

**Cat.#:** 11892

**Product Name:** Human ACVR1C Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** ACVRLK7;ALK7

**Target:** ACVR1C

**UNIPROT ID:** Q8NER5

**Description:** Recombinant Human ACVR1C Protein with C-terminal human Fc tag

**Background:** ACVR1C is a type I receptor for the TGFB (see MIM 190180) family of signaling molecules. Upon ligand binding, type I receptors phosphorylate cytoplasmic SMAD transcription factors, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors (Bondestam et al., 2001 [PubMed 12063393]).[supplied by OMIM, Mar 2008]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 36.0 kDa after removal of the signal peptide. The apparent molecular mass of ACVR1C-hFc is approximately 35–70 kDa due to glycosylation.

**Molecular Characterization:** ACVR1C(Leu22–Glu113) 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 ACVR1C Protein, hFc Tag on SDS-PAGE under reducing condition.