HUMAN BMPR1A PROTEIN, HFC TAG

Cat.#: 11876

Product Name: Human BMPR1A Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: ACVRLK3;ALK3;CD292;SKR5

Target: BMPR1A

UNIPROT ID: P36894

Description: Recombinant Human BMPR1A Protein with C-terminal human Fc tag

Background: The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding. [provided by RefSeq, Jul 2008]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 40.3 kDa after removal of the signal peptide. The apparent molecular mass of BMPR1A-hFc is approximately 35-70 kDa due to glycosylation.

Molecular Characterization: BMPR1A(Gln24-Arg152) 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.

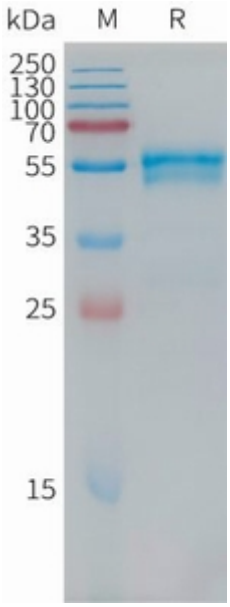

Figure 1. Human BMPR1A Protein, hFc Tag on SDS-PAGE under reducing condition.