HUMAN BMP2 PROTEIN, HFC TAG

Cat.#: 11875

Product Name: Human BMP2 Protein

Size : 10 μg, 50 μg and 100 μg

Synonyms: BDA2;BMP2A;SSFSC;SSFSC1

Target: BMP2

UNIPROT ID: P12643

Description: Recombinant Human BMP2 Protein with C-terminal human Fc tag

Background: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer, which plays a role in bone and cartilage development. Duplication of a regulatory region downstream of this gene causes a form of brachydactyly characterized by a malformed index finger and second toe in human patients. [provided by RefSeq, Jul 2016]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 39.0 kDa after removal of the signal peptide. The apparent molecular mass of BMP2-hFc is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: BMP2(Gln283-Arg396) 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.

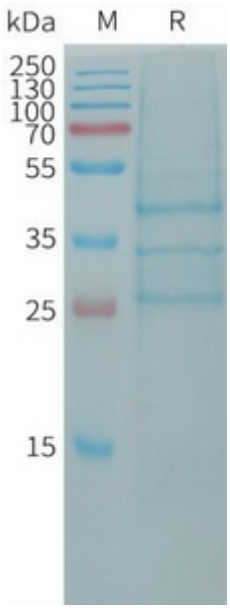

Figure 1. Human BMP2 Protein, hFc Tag on SDS-PAGE under reducing condition.