PRODUCT INFORMATION

Target	BMP2
Synonyms	BDA2;BMP2A;SSFSC;SSFSC1
Description	Recombinant Human BMP2 Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P12643
Expression Host	HEK293
Tag	C-Human Fc Tag
Molecular Characterization	BMP2(Gln283-Arg396) hFc(Glu99-Ala330)
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.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
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.
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]
Usage	Research use only
Conjugate	Unconjugated

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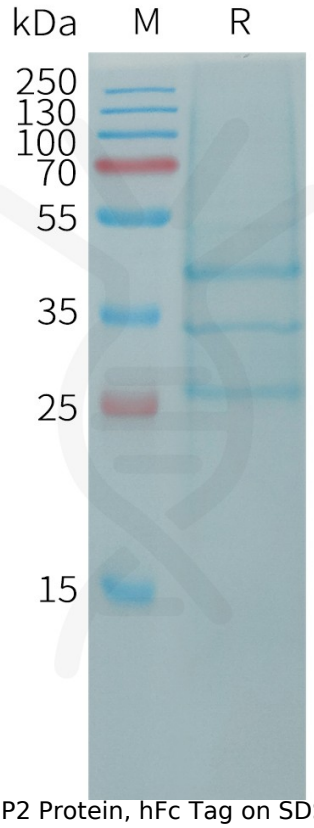


Figure 1. Human BMP2 Protein, hFc Tag on SDS-PAGE under reducing condition.

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