

## MOUSE BMP6 PROTEIN, HIS TAG

**Cat.#:** 12197

**Product Name:** Mouse BMP6 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** BMP-6;VGR-1

**Target:** BMP6

**UNIPROT ID:** P20722

**Description:** Recombinant mouse BMP6 protein with C-terminal 6xHis 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. This protein regulates a wide range of biological processes including iron homeostasis, fat and bone development, and ovulation. Mice lacking this gene exhibit delayed ossification of the sternum, iron overload, and reduced fertility in females. [provided by RefSeq, Jul 2016]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 54.9 kDa after removal of the signal peptide. The apparent molecular mass of mBMP6-His is approximately 35-70 kDa due to glycosylation.

**Molecular Characterization:** Mouse BMP6(Cys21-His510) 6xHis tag

**Purity:** The purity of the protein is greater than 85% 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. Mouse BMP6 Protein, His Tag on SDS-PAGE under reducing condition.