

Product datasheet for TP720011XL

BMP2 (NM_001200) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Recombinant protein of human bone morphogenetic protein 2 (BMP2), the domain of **Description:** Gln283-Arg396 Species: Human **Expression Host:** E. coli **Expression cDNA Clone** Gln283-Arg396 or AA Sequence: Tag Free Tag: Predicted MW: 13 kDa **Concentration:** lot specific **Purity:** >95% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl **Bioactivity:** ED50 is less than 50 ng/ml as determined by the cytolysis of MC3T3-E1 cells. Specific Activity of 2.0 x 104 IU/mg Endotoxin: < 0.1 EU per µg protein as determined by LAL test **Reconstitution Method:** Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 50mM Acetic Acid. Please aliguot the reconstituted solution to minimize freezethaw cycles. Storage: Store at -80°C. Stable for at least 6 months from date of receipt under proper storage and handling Stability: conditions. NP 001191 RefSeq: Locus ID: 650 **UniProt ID:** P12643, C8C060 Cytogenetics: 20p12.3 Synonyms: BDA2; BMP2A; SSFSC; SSFSC1



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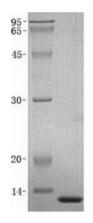
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GRIGENE BMP2 (NM_001200) Human Recombinant Protein – TP720011XL

- Summary: 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]
- Protein Families:Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell
Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant
signaling TGFb/BMP signaling pathway, Transmembrane
- Protein Pathways:Acute myeloid leukemia, Basal cell carcinoma, Cytokine-cytokine receptor interaction,
Endocytosis, Hedgehog signaling pathway, Hematopoietic cell lineage, Melanogenesis,
Pathways in cancer, TGF-beta signaling pathway

Product images:



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