

Product datasheet for DA3502X

BMP2 / BMP2A Human Protein

Product data:

OriGene Technologies, Inc.

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Product Type:	Recombinant Proteins
Description:	BMP2 / BMP2A human recombinant protein, 25 μg
Species:	Human
Expression Host:	E. coli
Predicted MW:	26 kDa
Purity:	>95% pure by SDS-PAGE and visualised by silver stain
Buffer:	Presentation State: Purified State: Lyophilized purified Ig fraction Buffer System: 50 mM Acetic Acid Stabilizer: None
Bioactivity:	Biological: Measured by the ability of BMP-2 to induce Alkaline Phosphatase production by C2C12 myogenic cells. The ED50 for this effect is typically 0.3-0.8 μg/ml. Specific: 2.5 x 10 ³ units/mg
Endotoxin:	< 0.1 ng per µg of BMP-2
Endotoxin: Reconstitution Method:	< 0.1 ng per µg of BMP-2 The lyophilized BMP-2 is best soluble in 50 mM Acetic Acid and at a concentration of 0.1 mg/ml but should be also soluble in most aqueous buffers when the pH is below 6.0
	The lyophilized BMP-2 is best soluble in 50 mM Acetic Acid and at a concentration of 0.1
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BMP2 / BMP2A Human Protein – DA3502X

Cytogenetics:	20p12.3
Synonyms:	Bone morphogenetic protein 2, BMP-2, BMP-2A
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

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