

Datasheet for ABIN7278705

BMP2 Protein (AA 289-396) (His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	BMP2
Protein Characteristics:	AA 289-396
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BMP2 protein is labelled with His tag.

Product Details

Purpose:	BMP-2 (human) (rec.) (His)
Specificity:	Human BMP-2 (aa 289-396) is fused at the C-terminus to a His-tag.
Characteristics:	Protein. Human BMP-2 (aa 289-396) is fused at the C-terminus to a His-tag. Source: E. coli. Endotoxin content: <0.1 EU/µg protein (LAL test, Lonza). Lyophilized from 0.2µm-filtered solution in PBS. Purity: >95 % (SDS-PAGE). Bone morphogenetic protein 2 (BMP-2) is a member of the BMP subgroup of the TGF-beta superfamily. It plays a dominant role in embryonic dorsolventral patterning, organogenesis, limb bud formation and bone formation and regeneration. BMP-2 signals through heterodimeric complexes composed of a type I receptor (Activin RI, BMP-RIA or BMP-RIB) and a type II receptor (BMP-RII or Activin RIIB). BMP-2 induces chondrocyte proliferation, endochondral bone formation, longitudinal bone growth and bone and cartilage repair. It induces ectopic bone formation or calcification by promoting osteogenic and chondrogenic differentiation in mesenchymal cells, stem cells and vascular smooth muscle cells. It also promotes the maintenance and repair of colonic epithelium,

Product Details

	suppresses neuronal dopamine synthesis and release, induces apoptosis in medulloblastoma cells and is required for cardiac contractility.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.1EU/μg protein (LAL test, Lonza).

Target Details

Target:	BMP2
Alternative Name:	BMP-2 (BMP2 Products)
Background:	Alternate Names/Synonyms: BMP2, Bone Morphogenetic Protein 2 Product Description: Bone morphogenetic protein 2 (BMP-2) is a member of the BMP subgroup of the TGF-beta superfamily. It plays a dominant role in embryonic dorsalventral patterning, organogenesis, limb bud formation and bone formation and regeneration. BMP-2 signals through heterodimeric complexes composed of a type I receptor (Activin RI, BMP-RIA or BMP-RIB) and a type II receptor (BMP-RII or Activin RIIB). BMP-2 induces chondrocyte proliferation, endochondral bone formation, longitudinal bone growth and bone and cartilage repair. It induces ectopic bone formation or calcification by promoting osteogenic and chondrogenic differentiation in mesenchymal cells, stem cells and vascular smooth muscle cells. It also promotes the maintenance and repair of colonic epithelium, suppresses neuronal dopamine synthesis and release, induces apoptosis in medulloblastoma cells and is required for cardiac contractility.
NCBI Accession:	NP_001191
Pathways:	Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Regulation of Muscle Cell Differentiation , Growth Factor Binding , Positive Regulation of fat Cell Differentiation

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Concentration:	Lot specific
Buffer:	Lyophilized from 0.2μm-filtered solution in PBS.

Handling

Handling Advice:	Avoid freeze/thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.