

Datasheet for ABIN7566038

**BMP2 Protein (AA 289-396) (Fc Tag)**[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	BMP2
Protein Characteristics:	AA 289-396
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BMP2 protein is labelled with Fc Tag.

## Product Details

Purpose:	BMP-2 (human):Fc (human) (rec.) (non-lytic)
Cross-Reactivity:	Human
Characteristics:	The extracellular domain of human BMP-2 (aa 289-396) is fused to the N-terminus of the Fc region of a mutant human IgG1.
Purity:	>98 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<1EU/mg protein (LAL test, Lonza).
Biological Activity Comment:	Shows the biological function of the BMP-2 moiety and exerts a prolonged circulating half-life caused by the modified Fc domain.

## Target Details

Target:	BMP2
Alternative Name:	BMP-2 ( <a href="#">BMP2 Products</a> )
Background:	<p>BMP2, Bone Morphogenetic Protein 2</p> <p>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, suppresses neuronal dopamine synthesis and release, induces apoptosis in medulloblastoma cells and is required for cardiac contractility.</p>
Molecular Weight:	~35-50kDa
NCBI Accession:	<a href="#">NP_001191</a>
Pathways:	<a href="#">Regulation of Hormone Metabolic Process</a> , <a href="#">Regulation of Hormone Biosynthetic Process</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Growth Factor Binding</a> , <a href="#">Positive Regulation of fat Cell Differentiation</a>

## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	Lyophilized from 0.2µm-filtered solution in PBS.
Handling Advice:	Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution.
Storage:	4 °C, -20 °C
Storage Comment:	<p>Short Term Storage: +4°C</p> <p>Long Term Storage: -20°C</p> <p>Use &amp; 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.</p>