

Datasheet for ABIN2180654
BMP2 Protein (AA 284-396)[Go to Product page](#)

2 Images

Overview

Quantity:	200 µg
Target:	BMP2
Protein Characteristics:	AA 284-396
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Sequence:	AA 284-396
Characteristics:	This protein carries no "tag". The protein has a calculated MW of 13 kDa. the protein migrates as 13 kDa under reducing (R) condition, and 24 kDa under non-reducing (NR) condition (SDS-PAGE).
Purity:	>92 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	BMP2
Alternative Name:	BMP-2 (BMP2 Products)
Background:	Human bone morphogenetic protein 2 (BMP2) is also known as human BMP-2, BMP-2, BMP2, BMP 2, h-BMP-2, rh-BMP-2, recombinant human BMP-2, recombinant BMP-2, BMP, is a

Target Details

member of the BMP subgroup belonging to the TGF- β superfamily of structurally related signaling proteins. BMP-2 is a potent osteoinductive cytokine, capable of inducing bone and cartilage formation in association with osteoconductive carriers such as collagen and synthetic hydroxyapatite. In addition to its osteogenic activity, BMP-2 plays an important role in cardiac morphogenesis and is expressed in a variety of tissues including lung, spleen, brain, liver, prostate ovary and small intestine. As implied by its name, BMPs promote and regulate bone development, growth, remodeling and repair, in both prenatal development and postnatal growth of eye, heart, kidney, skin, and other tissues. BMP2 has been demonstrated to potently induce osteoblast differentiation in a variety of cell types, and induce apoptosis in human myeloma cell lines as a novel function.

Molecular Weight: 12.8 kDa

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

Handling

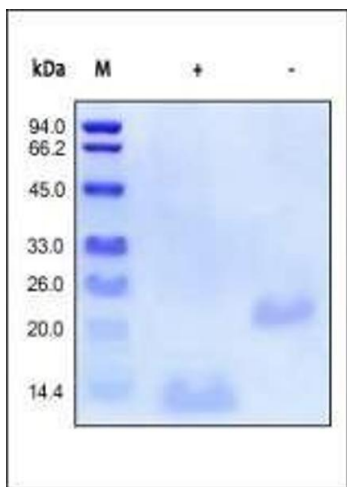
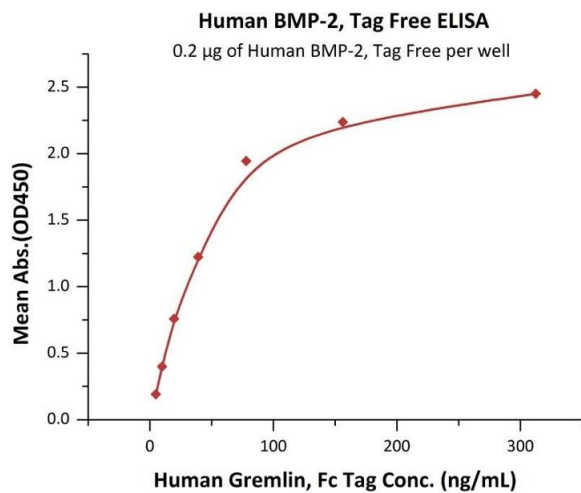
Format: Lyophilized

Buffer: 100 mM Acetic Acid, pH 2.8

Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).



ELISA

Image 1. Immobilized Human BMP-2, Tag Free (ABIN2180654,ABIN2180653,ABIN6810028) at 2 µg/mL (100 µL/well) can bind Human Gremlin, Fc Tag (ABIN4949105,ABIN4949106) with a linear range of 5-78 ng/mL (QC tested).

SDS-PAGE

Image 2. The purity of rhBMP2 was determined by SDS-PAGE of reduced (R) and non-reduced (NR) rhBMP2 and staining overnight with Coomassie Blue.