

Datasheet for ABIN7273975
BMP2 Protein (AA 283-396)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	BMP2
Protein Characteristics:	AA 283-396
Origin:	Human, Dog, Mouse, Rat, Rhesus Monkey
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Human/Rhesus macaque/Mouse/Rat/Canine BMP2 Protein
Sequence:	Gln283-Arg396
Characteristics:	Recombinant Human/Rhesus macaque/Mouse/Rat/Canine BMP2 Protein is expressed from E.coli without tag.It contains Gln283-Arg396.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	BMP2
Alternative Name:	BMP2 (BMP2 Products)
Background:	Bone morphogenetic protein 2 (BMP2), a member of the transforming growth factor-β (TGF-β)

Target Details

super-family, is one of the main chondrogenic growth factors involved in cartilage regeneration. BMP2 is known to induce chondrogenic differentiation in various types of stem cells in vitro. However, BMP2 also induces osteogenic differentiation and endochondral ossification in mesenchymal stem cells (MSCs).

Molecular Weight: 12.90 kDa same as Tris-Bis PAGE result.

UniProt: [P12643](#)

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

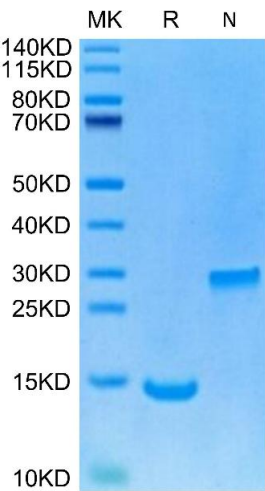
Reconstitution: Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in 100 mM Acetic Acid (pH 2.8).

Buffer: Lyophilized from 0.22µm filtered solution in 100 mM Acetic Acid (pH 2.8). Normally 8 % trehalose is added as protectant before lyophilization.

Storage: -20 °C, -80 °C

Storage Comment: -20 to -80°C for 12 months as supplied from date of receipt, -80°C for 3-6 months after reconstitution, -2-8°C for 2-7 days after reconstitution, Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Expiry Date: 12 months



SDS-PAGE

Image 1. Human BMP2 on Tris-Bis PAGE under Non reducing (N) condition and reduced condition. The purity is greater than 95 % .