SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

# Product Information

## MemDX™ Membrane Protein Human BMP2 (Bone morphogenetic protein 2) for Antibody Discovery

Cat. No.: **MP0069Q**
This product is for research use only and is not intended for diagnostic use.

This product is a 26.0 kDa Human BMP2 membrane protein expressed in CHO. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

## Product Specifications

**Host Species**
Human

**Target Protein**
BMP2

**Protein Length**
Partial

**Protein Class**
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

**Molecular Weight**
26.0 kDa

**Sequence**
QAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWIVAPPGYHAFYCHGECPFPLADHLNSTNHAIVQTLVNSVNSKIPKACCVPTELSA

## Product Description

**Expression Systems**
CHO

**Form**
Powder

**Endotoxin**
< 1 EU/μg

**Purity**
>95% pure by SDS-PAGE gel and HPLC analyses

**Buffer**

Lyophilized (sterile filtered) purified protein

**Storage**

Store at +4°C for up to one week or several months at -80°C

## Target

**Target Protein**

BMP2

**Full Name**

Bone morphogenetic protein 2

**Introduction**

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.

**Alternative Names**

BDA2; BMP2A; SSFSC; bone morphogenetic protein 2; bone morphogenetic protein 2A; BMP-2; BMP-2A

**Gene ID**

650

**UniProt ID**

P12643