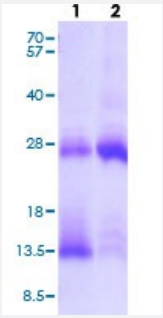
Bioactive

BMP2 (Human) Recombinant Protein

Catalog # P6981 Size 100 ug

Applications



Lane 1: reducing conditions.
Lane 2: non-reducing conditions.

Result of bioactivity analysis

Result of bioactivity analysis

BMP2 (Human) Recombinant Protein (Cat # P6981) stimulates alkaline phosphatase in the ATDC5 mouse chondrogenic cells. The ED50 range ≤ 100 ng/mL.

Specification

Product Description	Human IBMP2 (NP_001191, 283 a.a. - 396 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Host	Escherichia coli
Theoretical MW (kDa)	13
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purity	> 90% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method).

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Activity	Measured by the ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED_{50} for this effect is ≤ 100 ng/mL.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain. Lane 1: reducing conditions. Lane 2: non-reducing conditions.
Recommend Usage	Bioactivity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM Sodium Acetate, pH 3.5.
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis Result of bioactivity analysis BMP2 (Human) Recombinant Protein (Cat # P6981) stimulates alkaline phosphatase in the ATDC5 mouse chondrogenic cells. The ED50 range ≤ 100 ng/mL.

Applications

- SDS-PAGE

Gene Info — BMP2

Entrez GeneID	650
Protein Accession#	NP_001191
Gene Name	BMP2
Gene Alias	BMP2A
Gene Description	bone morphogenetic protein 2
Omim ID	112261 235200
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the transforming growth factor-beta (TGFB) superfamily. The encoded protein acts as a disulfide-linked homodimer and induces bone and cartilage formation. [provided by RefSeq
Other Designations	OTTHUMP00000030228

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Pathway

- Basal cell carcinoma
- Cytokine-cytokine receptor interaction
- Hedgehog signaling pathway
- Pathways in cancer
- TGF-beta signaling pathway

Disease

- Abortion
- Asthma
- Calcinosis
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Colorectal Neoplasms
- Diabetes Mellitus
- Diabetic Nephropathies
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Hemochromatosis
- Hyperparathyroidism
- Kidney Failure
- Narcolepsy
- Obesity

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Ossification of Posterior Longitudinal Ligament
- Osteoarthritis
- Osteoporosis
- Ovarian Failure
- Overweight
- Polycystic Ovary Syndrome
- Puberty
- Sudden Infant Death
- Thrombophilia
- Tobacco Use Disorder

Copyright © 2023 Abnova Corporation. All Rights Reserved.