

Bioactive

HuPro®

BMP7 (Human) Recombinant Protein

Catalog # P8480

Size 5 ug

Specification

Product Description	Human BMP7 (P18075) recombinant protein expressed in HEK293 cells.
Sequence	DFSLDNEVHSSFIHRRLRSQERREMQREILSILGLPHRPRPHLQGKHNSAPMFMLDLYNAMAVEE GGPGGGQGFSYPYKAVFSTQGPPLASLQDSHFLTADVMVMSFVNLVEHDKEFFHPRYHHREFR FDLSKIPEGEAVTAAEFRIYKDYIRERFDNETFRISVYQVLQEHLGRESDFLDSRTLWASEEGWL VDITATSNHWVVNPRHNLGLQLSVETLDGQSINPKLAGLGRHGPQNKQPFMVAFKAT.
Host	Human
Theoretical MW (kDa)	30-38
Form	Lyophilized
Preparation Method	HEK 293T cell expression system
Purity	> 95% by SDS-PAGE
Activity	The specific activity was determined by the dose dependent induction of alkaline phosphatase production in the ATDC-5 cell line (Mouse chondrogenic cell line) and is typically 50-250 ng/mL.
Storage Buffer	The BMP7 was lyophilized from 1mg/mL in 1xPBS.
Storage Instruction	Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — BMP7

Entrez GeneID	655
Protein Accession#	P18075
Gene Name	BMP7
Gene Alias	OP-1
Gene Description	bone morphogenetic protein 7
Omim ID	112267
Gene Ontology	Hyperlink
Gene Summary	The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development and possible bone inductive activity. [provided by RefSeq]
Other Designations	OTTHUMP00000031357 osteogenic protein 1

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Hedgehog signaling pathway](#)
- [TGF-beta signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)

- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hyperparathyroidism](#)
- [Hypospadias](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Narcolepsy](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Psychiatric Status Rating Scales](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Tooth Abnormalities](#)