

Bioactive

BMP7 (Human) Recombinant Protein

Catalog # P8479

Size 2 x 10 ug

Specification

Product Description	Human BMP7 (P18075) recombinant protein with His-tag at N-terminal expressed in Nicotiana benthamiana expression system.
Sequence	HHHHHHSTGSKQRSQNRSKTPKNQEALRMANVAENSSSDQRQACKKHELYVSFRDLGWQDWII APEGYAAAYCEGECAPFLNSYMNATNHAVQTLVHFINPETVPKPCCAPTQLNAISVLYFDDSSVIL KKYRNMVVRACGCH.
Host	Nicotiana benthamiana
Theoretical MW (kDa)	16.5
Form	Lyophilized
Preparation Method	Nicotiana benthamiana expression system
Purity	> 97% by SDS-PAGE
Activity	The biological activity of BMP-7 was measured by the ability to induce alkaline phosphatase producti on by ATDC5 cells, ED ₅₀ is less than 40 ng/mL, corresponding to a specific activity of 25,000 units/ mg.
Storage Buffer	BMP-7 was lyophilized from a solution containing Tris-HCl 0.05M buffer at pH 7.4.
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](#)