

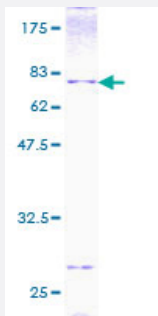
Full-Length

BMP7 (Human) Recombinant Protein (P01)

Catalog # H00000655-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human BMP7 full-length ORF (AAH08584, 1 a.a. - 431 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MHVRSLRAAPHSFVALWAPLFLLRSALADFSLDNEVHSSFIHRLRSQERREMQREILSILGLPH
RPRPHLQGKHNSAPMFMLDLYNAMAVEEGGGPGGQGFSPYKAVFSTQGPPPLASLQDSHFLTD
ADMVMSFVNLVEHDKEFFHPRYHHREFRFDLSKIPEGEAVTAAEFRIYKDYIRERFDNETFRISVYQ
VLQEHLGRESDFLLDSRTLWASEEGWLVDITATSNHWVVPNRHNLGLQLSVETLDGQSINPKL
AGLGRHGPQNKQPFMVAFKATEVHFRSIRSTGSKQRSQNRSKTPKNQEALRMANVAENSSSD
QRQACKKHELIVSFRDLGWQDWIIAPEGYAAAYCEGECAFLNSYMNATNHAVQTLVHFINPETV
PKPCCAPTQLNAISVLYFDDSSNVILKKYRNMVVRACGCH

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

73.15

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — BMP7

Entrez GeneID	655
GeneBank Accession#	BC008584
Protein Accession#	AAH08584
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

Publication Reference

- [Gremlin-Mediated Decrease in Bone Morphogenetic Protein Signaling Promotes Pulmonary Fibrosis.](#)

Myllarniemi M, Lindholm P, Ryyanen MJ, Kliment CR, Salmenkivi K, Keski-Oja J, Kinnula VL, Oury TD, Koli K.

American Journal of Respiratory and Critical Care Medicine 2007 Nov; 177(3):321.

Application: Func, Mouse, Mouse bronchoalveolar lavage, lung

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](#)