

# Recombinant Full Length Human BMP7 Protein, GST-tagged

Cat. No. BMP7-1727HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human BMP7 full-length ORF ( AAH08584, 1 a.a. - 431 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	431 amino acids
<b>Description</b>	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.
<b>Form</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Molecular Mass</b>	73.15 kDa
<b>AA Sequence</b>	MHVRSLRAAAPHSFVALWAPLFLLRSAADFSLDNEVHSSFIHRRLRSQERREMQR EILSILGLPHRPRPHLQGKHNSAPMFLDLYNAMAVEEGGGPGGQGFSPYPYKAVFS TQGPPLASLQDSHFLTDADMVMSFVNLVEHDKEFFHPRYHHREFRDLSKIPEGEA VTAAEFRIYKDYIRERFDNETFRISVYQVLQEHLGRESDFLLDSRTLWASEEGWLVF

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DITATSNHWVFNPRHNLGLQLSVETLDGQSINPKLAGLIGRHGPQNKQPFMVAFFKA  
TEVHFRSIRSTGSKQRSQNRSKTPKNQEALRMANVAENSSSDQRQACKKHELYVS  
FRDLGWQDWIIAPEGYAAYYCEGECAPPLNSYMNATNHAIVQTLVHFINPETVPKPC  
CAPTQLNAISVLYFDDSSNVILKKYRNMVVRACGCH

<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">BMP7 bone morphogenetic protein 7 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">BMP7</a>
<b>Synonyms</b>	BMP7; bone morphogenetic protein 7; OP 1; osteogenic protein 1; BMP-7; OP-1
<b>Gene ID</b>	<a href="#">655</a>
<b>mRNA Refseq</b>	<a href="#">NM_001719</a>
<b>Protein Refseq</b>	<a href="#">NP_001710</a>
<b>MIM</b>	<a href="#">112267</a>
<b>UniProt ID</b>	<a href="#">P18075</a>

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