

## Active Recombinant Human GDF11, His-tagged

Cat. No. GDF11-38H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human BMP-11 is N-terminus His-tagged protein with a molecular weight of 32.6 kDa (for homodimeric) and 16.2 (for monomeric) consisting of 136 amino acid polypeptide chains.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in mice and Xenopus suggest that this protein is involved in mesodermal formation and neurogenesis during embryonic development.
<b>Form</b>	Lyophilized protein. Lyophilized from 10 mM Sodium Citrate, pH 3.5.
<b>Bio-activity</b>	The protein is biologically active as determined by its ability to induce alkaline phosphatase production by C2C12 cells. The ED50 is in the range of 0.4-4 g/ml.
<b>Molecular Mass</b>	32.6 kDa
<b>Endotoxin</b>	<0.1 ng/μg

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<b>Purity</b>	≥98% by SDS-PAGE and HPLC
<b>Storage</b>	The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BMP-11 should be stored in working aliquots at -20°C.
<b>Reconstitution</b>	Reconstitute to a concentration of 0.1-1.0 mg/ml in water containing BSA (50 µg BSA per 1 µg of protein). This solution can then be diluted into other aqueous buffers.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	GDF11 growth differentiation factor 11 [ Homo sapiens (human) ]
<b>Official Symbol</b>	GDF11
<b>Synonyms</b>	GDF11; growth differentiation factor 11; BMP11; BMP-11; bone morphogenetic protein 11; GDF-11; growth/differentiation factor 11
<b>Gene ID</b>	10220
<b>mRNA Refseq</b>	NM_005811
<b>Protein Refseq</b>	NP_005802
<b>MIM</b>	603936
<b>UniProt ID</b>	O95390
<b>Chromosome Location</b>	12q13.13
<b>Function</b>	cytokine activity; growth factor activity; transforming growth factor beta receptor

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