Active Recombinant Human GDF11, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
Description	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.
Form	Lyophilized protein. Lyophilized from 10 mM Sodium Citrate, pH 3.5.
Bio-activity	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.
Molecular Mass	32.6 kDa
Endotoxin	<0.1 ng/μg

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Purity	≥98% by SDS-PAGE and HPLC
Storage	The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BMP-11 should be stored in working aliquots at -20°C.
Reconstitution	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.

GENE INFORMATION

Gene Name	GDF11 growth differentiation factor 11 [Homo sapiens (human)]
Official Symbol	GDF11
Synonyms	GDF11; growth differentiation factor 11; BMP11; BMP-11; bone morphogenetic protein 11; GDF-11; growth/differentiation factor 11
Gene ID	10220
mRNA Refseq	NM_005811
Protein Refseq	NP_005802
MIM	603936
UniProt ID	O95390
Chromosome Location	12q13.13
Function	cytokine activity; growth factor activity; transforming growth factor beta receptor

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