

Active Recombinant Human Bone Morphogenetic Protein 5

Cat. No. BMP5-27H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP5 (Ala317His454) was expressed in CHO Cells.
Species	Human
Source	CHO
Description	This gene encodes a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. These proteins are synthesized as prepropeptides, cleaved, and then processed into dimeric proteins. This protein may act as an important signaling molecule within the trabecular meshwork and optic nerve head, and may play a potential role in glaucoma pathogenesis. This gene is differentially regulated during the formation of various tumors.
Molecular Mass	This protein has a calculated molecular mass of 15.6 kDa, migrates as an approximately 18-23 kDa band in SDS-PAGE under reducing conditions as predicted.
Predicted N terminal	Ala317
Formulation	Lyophilized from a 0.2 µm filtered solution in HCl with BSA as a carrier protein.
Purity	>95%, by SDSPAGE under reducing conditions and visualized by silver stain.

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Activity	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is typically 0.2-1.2 μ g/mL.
EndotoxinLevel	<0.01 EU per 1 μ g of the protein by the LAL method.
Reconstitution	Reconstitute at 100 μ g/mL in 4 mM HCl containing at least 0.1% human or bovine serum albumin.
Storage	12 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freezethaw cycles.
OfficialSymbol	BMP5

GENE INFORMATION

Gene Name	BMP5 bone morphogenetic protein 5 [Homo sapiens]
Synonyms	BMP5; bone morphogenetic protein 5; MGC34244; BMP-5; OTTHUMP00000016650
Gene ID	653
mRNA Refseq	NM_021073
Protein Refseq	NP_066551
MIM	112265
UniProt ID	P22003
Chromosome Location	6p12.1

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Pathway	TGF-beta signaling pathway
Function	BMP receptor binding; cytokine activity; growth factor activity