

Active Recombinant Human GDF2 Protein

Cat. No. GDF2-019H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mature recombinant human BMP-9 protein consists of 110 amino acids (320-429) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	320-429 a.a.
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates cartilage and bone development, angiogenesis and differentiation of cholinergic central nervous system neurons. Mutations in this gene are associated with hereditary hemorrhagic telangiectasia.
Bio-activity	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is 0.4-1.6 ng/mL.
Molecular Mass	12 kDa
Product-Related Proteins	320-429

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Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	GDF2 growth differentiation factor 2 [Homo sapiens (human)]
Official Symbol	GDF2
Synonyms	GDF2; growth differentiation factor 2; BMP9; HHT5; BMP-9; growth/differentiation factor 2; bone morphogenetic protein 9
Gene ID	2658
mRNA Refseq	NM_016204
Protein Refseq	NP_057288
MIM	605120
UniProt ID	Q9UK05

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