

Active Recombinant Human GDF6 Protein

Cat. No. GDF6-050H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mature recombinant human GDF-6 protein (336-455aa) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	336-455 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 is required for normal formation of some bones and joints in the limbs, skull, and axial skeleton. Mutations in this gene are associated with Klippel-Feil syndrome, microphthalmia, and Leber congenital amaurosis.
Bio-activity	The ED50 as determined by its ability to induce alkaline phosphatase production by ATDC-5 chondrogenic cells is in the range of 2-3 ug/mL.
Molecular Mass	14 kDa
Product-Related Proteins	336-455

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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	GDF6 growth differentiation factor 6 [Homo sapiens (human)]
Official Symbol	GDF6
Synonyms	GDF6; growth differentiation factor 6; KFM; KFS; KFS1; KFSL; SGM1; BMP13; CDMP2; SYNS4; BMP-13; growth/differentiation factor 6; bone morphogenetic protein 13; growth/differentiation factor 16
Gene ID	392255
mRNA Refseq	NM_001001557
Protein Refseq	NP_001001557
MIM	601147
UniProt ID	Q6KF10

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