

Active Recombinant Human GDF3 Protein

Cat. No. GDF3-048H Lot. No. (See product label)

SPECIFICATION

Product Overview	The mature recombinant human GDF-3 protein (251-364aa) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	251-364 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 plays a role in ocular and skeletal development. Mutations in this gene are associated with microphthalmia, coloboma, and skeletal abnormalities in human patients.
Bio-activity	Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The ED50 for this effect is 100-150 ng/mL.
Molecular Mass	12.9 kDa
Product-Related Proteins	251-364

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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	GDF3 growth differentiation factor 3 [Homo sapiens (human)]
Official Symbol	GDF3
Synonyms	GDF3; growth differentiation factor 3; KFS3; MCOP7; MCOPCB6; growth/differentiation factor 3
Gene ID	9573
mRNA Refseq	NM_020634
Protein Refseq	NP_065685
MIM	606522
UniProt ID	Q9NR23

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