

Active Recombinant Human GDF7 Protein

Cat. No. GDF7-051H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mature recombinant human GDF-7 protein (322-450aa) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	322-450 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 may play a role in the differentiation of tendon cells and spinal cord interneurons. A mutation in this gene may be associated with increased risk for Barrett's esophagus and esophageal adenocarcinoma.
Bio-activity	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is typically 0.25-1.25 µg/mL.
Molecular Mass	14 kDa
Product-Related Proteins	322-450

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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	GDF7 growth differentiation factor 7 [Homo sapiens (human)]
Official Symbol	GDF7
Synonyms	GDF7; growth differentiation factor 7; BMP12; growth/differentiation factor 7; Names; GDF-7
Gene ID	151449
mRNA Refseq	NM_182828
Protein Refseq	NP_878248
MIM	604651
UniProt ID	Q7Z4P5

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