

Active Recombinant Human GDF1 Protein

Cat. No. GDF1-045H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mature recombinant human GDF-1 protein (254-372aa) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	254-372 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. Studies in rodents suggest that this protein is involved in the establishment of left-right asymmetry in early embryogenesis and in neural development in later embryogenesis. The encoded protein is translated from a bicistronic mRNA that also encodes ceramide synthase 1. Mutations in this gene are associated with several congenital cardiovascular malformations.
Bio-activity	Measured by its ability to induce Smad2 phosphorylation in P19 mouse embryonal carcinoma cells. 50 ng/mL of Recombinant Human GDF-1 can effectively induce Smad2 phosphorylation.
Molecular Mass	12.6 kDa

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Product-Related Proteins	254-372
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	GDF1 growth differentiation factor 1 [Homo sapiens (human)]
Official Symbol	GDF1
Synonyms	GDF1; growth differentiation factor 1; RAI; DORV; LAG1; UOG1; CERS1; CHTD6; DTGA3; LASS1; embryonic growth/differentiation factor 1; Ceramide synthase 1; LAG1 longevity assurance homolog 1; Longevity assurance gene 1 protein homolog 1; Protein UOG-1
Gene ID	2657
mRNA Refseq	NM_001492
Protein Refseq	NP_001483
MIM	602880
UniProt ID	P27539

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