

Active Recombinant Human GDF11 Protein

Cat. No. GDF11-046H Lot. No. (See product label)

SPECIFICATION

Product Overview	The mature recombinant human GDF-11 protein (299-407aa) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	299-407 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 the development of the nervous and other organ systems, and may regulate aging.
Bio-activity	Measured by its ability to induce hemoglobin expression in K562 human chronic myelogenous leukemia cells. The ED50 for this effect is 0.8-4.8 ng/mL.
Molecular Mass	12.6 kDa
Product-Related Proteins	299-407
Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method

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Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	GDF11 growth differentiation factor 11 [Homo sapiens (human)]
Official Symbol	GDF11
Synonyms	GDF11; growth differentiation factor 11; VHO; BMP11; BMP-11; growth/differentiation factor 11; GDF-11; bone morphogenetic protein 11
Gene ID	10220
mRNA Refseq	NM_005811
Protein Refseq	NP_005802
MIM	603936
UniProt ID	O95390

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