

## Active Recombinant Human GDF11 Protein

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

### SPECIFICATION

<b>Product Overview</b>	The mature recombinant human GDF-11 protein (299-407aa) without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	299-407 a.a.
<b>Description</b>	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.
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	12.6 kDa
<b>Product-Related Proteins</b>	299-407
<b>Endotoxin</b>	< 0.1 EU/μg of the protein as determined by the LAL method

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

## GENE INFORMATION

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

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