

Active Recombinant Human GDF11 Protein (Asn299-Ser407), C-His tagged, Animal-free, Carrier-free

Cat. No. GDF11-07H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GDF11 Protein (Asn299-Ser407) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Asn299-Ser407
Description	Bone Morphogenetic Protein-11 (BMP-11), known as Growth differentiation factor 11 (GDF11), is an extracellular multifunctional signaling cytokine that is also a member of the TGF β family. BMP-11 can bind with the TGF β receptor and is involved in SMAD protein signal transduction. Moreover, it promotes the formation of blood vessels and nerves that can control anterior-posterior patterning.
Form	Lyophilized
Bio-activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 11 ng/mL. Measure by its ability to induce hemoglobin expression in K562 cells. The ED50 for this effect is < 4 ng/mL.
Molecular Mass	The protein has a calculated MW of 13.40 kDa. The protein migrates as 16 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 3.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

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

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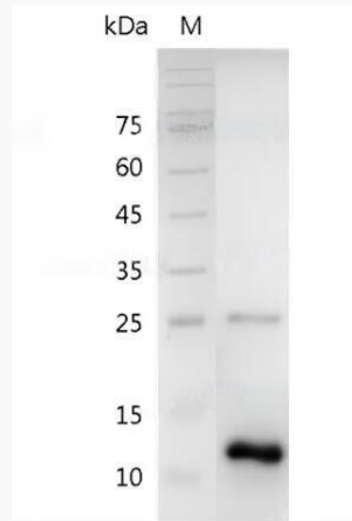
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Protein Refseq NP_005802

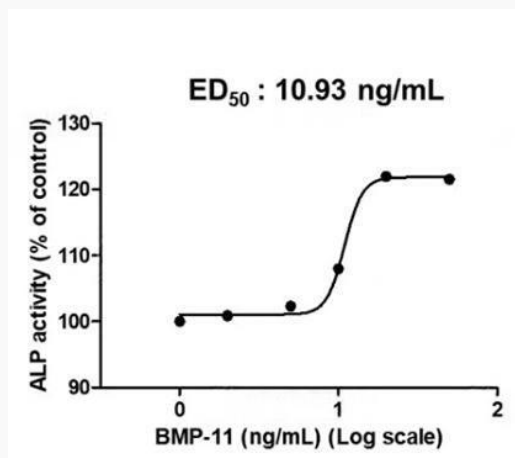
MIM 603936

UniProt ID O95390

SDS-PAGE analysis
of recombinant
human BMP-11.



Activity



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Human BMP-11, His Tag, E. coli (LDG109PHE) induced alkaline phosphatase production by ATDC5 cells, with the ED50 at 10.93 ng/mL.

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