

## Active Recombinant Human GDF2 Protein (Ser320-Arg429), N-His tagged, Animal-free, Carrier-free

Cat. No. GDF2-119H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GDF2 Protein (Ser320-Arg429) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ser320-Arg429
<b>Description</b>	Bone Morphogenetic Protein-9 (BMP-9), known as Growth differentiation factor 2 (GDF2), is an extracellular multifunctional cytokine that is also a member of the TGF- $\beta$ family. BMP-8B can bind with the TGF- $\beta$ receptor and trigger SMAD protein signal transduction. BMP-9 is the most effective for the differentiation of osteoblasts in vivo, and the general BMP blocker does not affect it.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 0.4 ng/mL.
<b>Molecular Mass</b>	The protein has a calculated MW of 12.89 kDa. The protein migrates as 16 kDa under reducing condition (SDS-PAGE analysis).
<b>Endotoxin</b>	< 0.01 EU/ $\mu$ g of the protein by the LAL method.

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<b>Purity</b>	>98% as determined by SDS-PAGE analysis.
<b>Storage</b>	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.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 3.5.
<b>Reconstitution</b>	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.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

## GENE INFORMATION

<b>Gene Name</b>	GDF2 growth differentiation factor 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	GDF2
<b>Synonyms</b>	GDF2; growth differentiation factor 2; growth/differentiation factor 2; BMP 9; BMP9; GDF-2; bone morphogenetic protein 9; BMP-9;
<b>Gene ID</b>	2658
<b>mRNA Refseq</b>	NM_016204
<b>Protein Refseq</b>	NP_057288

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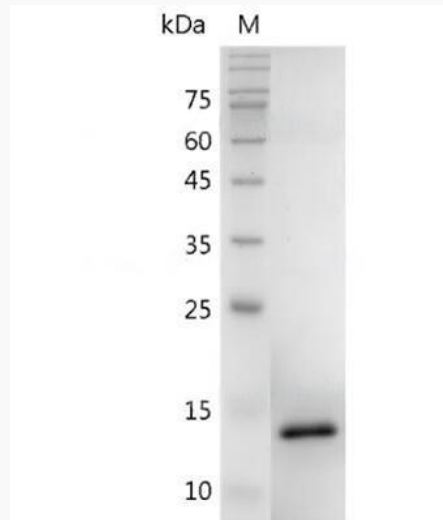
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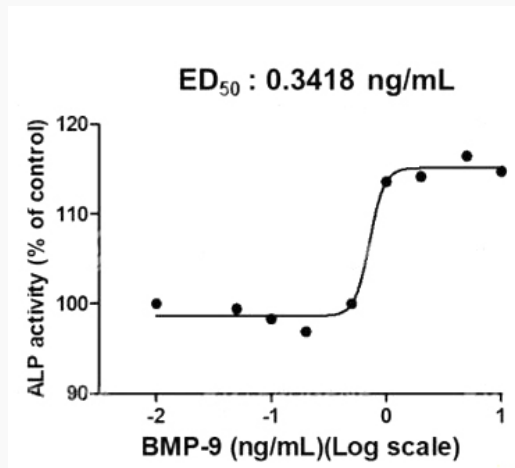
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UniProt ID Q9UK05

SDS-PAGE analysis  
of recombinant  
human BMP-9.



Activity



Human BMP-9, His Tag, E. coli (LDG107PHE) induced alkaline phosphatase production by ATDC5 cells, with the ED<sub>50</sub> at 0.3418 ng/mL.

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