

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

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

SPECIFICATION

Product Overview	Recombinant Human GDF2 Protein (Ser320-Arg429) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ser320-Arg429
Description	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- β family. BMP-8B can bind with the TGF- β 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.
Form	Lyophilized
Bio-activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 0.4 ng/mL.
Molecular Mass	The protein has a calculated MW of 12.89 kDa. The protein migrates as 16 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.01 EU/ μ g of the protein by the LAL method.

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

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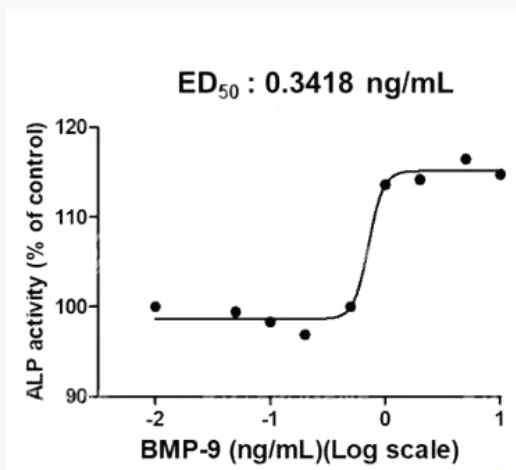
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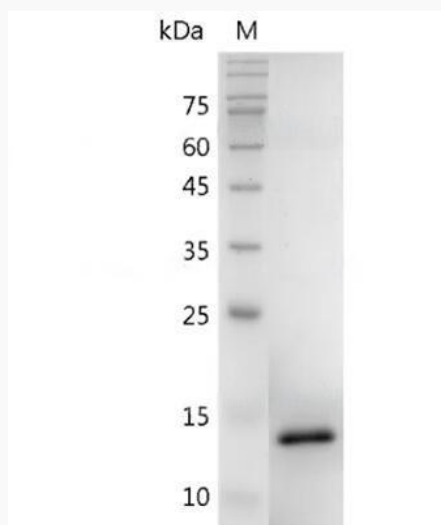
UniProt ID Q9UK05

Activity



Human BMP-9, His Tag, E. coli (LDG107PHE) induced alkaline phosphatase production by ATDC5 cells, with the ED50 at 0.3418 ng/mL.

SDS-PAGE analysis of recombinant human BMP-9.



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