

Active Recombinant Human BMP15 Protein (Gln268-Arg392), C-His tagged, Animal-free, Carrier-free

Cat. No. BMP15-313H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP15 Protein (Gln268-Arg392) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Gln268-Arg392
Description	Bone Morphogenetic Protein-15 (BMP-15) is an extracellular multifunctional signaling cytokine that is also a member of the TGFβ family. In the ovarian follicles, BMP-15 has a vital role in regulating the growth and maturation of follicles, the sensitivity of granulosa cells to FSH, and preventing granulosa cells from apoptosis. In addition, BMP-15 and GDF9 cooperate and have the same interaction on target cells.
Form	Lyophilized
Bio-activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 17 ng/mL.
Molecular Mass	The protein has a calculated MW of 14.88 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg 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	BMP15 bone morphogenetic protein 15 [Homo sapiens (human)]
Official Symbol	BMP15
Synonyms	BMP15; bone morphogenetic protein 15; GDF9B; BMP-15; GDF-9B; growth/differentiation factor 9B; ODG2; POF4;
Gene ID	9210
mRNA Refseq	NM_005448
Protein Refseq	NP_005439

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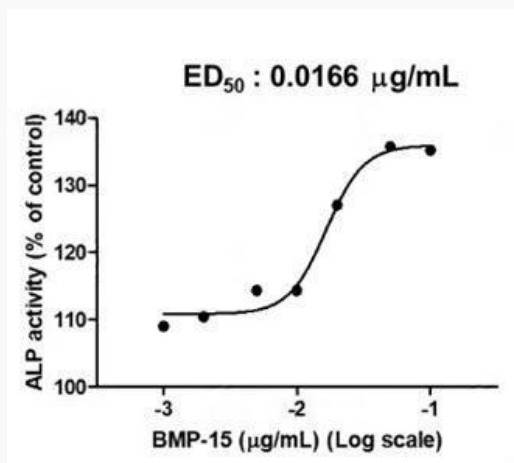
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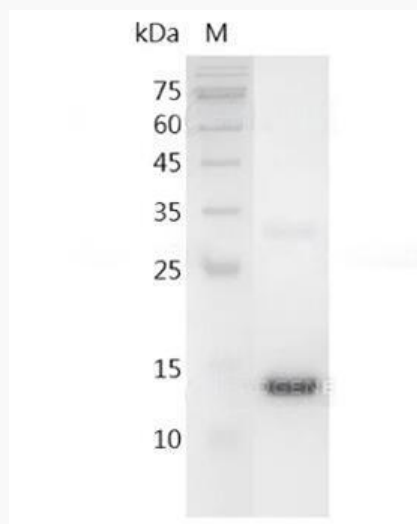
UniProt ID O95972

Activity



Human BMP-15, His Tag, E. coli (LDG113PHE) induced alkaline phosphatase production by ATDC5 cells, with the ED₅₀ at 16.6 ng/mL.

SDS-PAGE analysis of recombinant human BMP-15.



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