

Active Recombinant Human GDF7 Protein (Lys352-Arg450), C-His tagged, Animal-free, Carrier-free

Cat. No. GDF7-35H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GDF7 Protein (Lys352-Arg450) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Lys352-Arg450
Description	Bone Morphogenetic Protein-12 (BMP-12), known as Growth differentiation factor 7 (GDF7), is an extracellular multifunctional cytokine that is also a member of the TGFβ family. BMP-12 can bind with the TGFβ receptor and trigger SMAD protein signal transduction. BMP-12 is in a signaling center called the roof plate in the embryo's developing nervous system, where it sends signals to induce the generation of sensory neurons.
Form	Lyophilized
Bio-activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 2 µg/mL.
Molecular Mass	The protein has a calculated MW of 14.95 kDa. The protein migrates as 17 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	GDF7 growth differentiation factor 7 [Homo sapiens (human)]
Official Symbol	GDF7
Synonyms	GDF7; growth differentiation factor 7; growth/differentiation factor 7; BMP12; GDF-7;
Gene ID	151449
mRNA Refseq	NM_182828

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Protein Refseq NP_878248

MIM 604651

UniProt ID Q7Z4P5

SDS-PAGE analysis
of recombinant
human BMP-12.

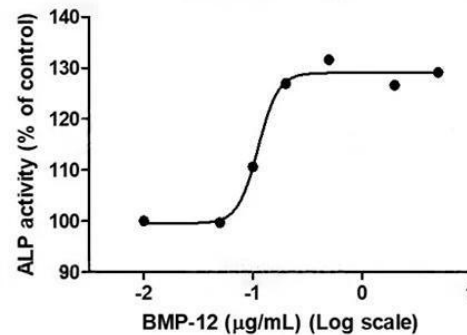
kDa M

75
60
45
35
25
15
10



Activity

ED₅₀ : 0.1118 μg/mL



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Human BMP-12, His Tag, E. coli (LDG110PHE) induced alkaline phosphatase production by ATDC5 cells, with the ED50 at 111.8 ng/mL.

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