

Active Recombinant Mouse Gdf11 protein

Cat. No. Gdf11-108M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Gdf11 (299-407 aa) was expressed in E. coli.

Species Mouse

Source E.coli

ProteinLength 299-407 a.a.

Description

Bone morphogenetic proteins (BMP) are secreted signaling proteins, many of which are involved in various developmental processes, in addition to bone formation. GDF11 is a circulating growth and differentiation factor that has age-dependent effects on development. Notably, injection of recombinant GDF11 into old mice, so that circulating levels match those in young mice, enhances vascularization in the brain, increases vessel volume, increases neural stem cell populations, and reverses cardiac hypertrophy. These changes mimic the changes in vascular remodeling, neurogenesis, and olfactory function that are produced by providing young blood to aged mice. In mouse embryos, GDF11 has critical roles in patterning mesodermal, skeletal, and neural tissues.

Form Lyophilized. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Keep pH below 5.0. Do not vortex.

Bio-activity Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The ED50 value for this effect is 0.08-0.1ug/ml.

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Molecular Mass	12.5 kDa
Purity	>90%
Stability	1 year
Storage	Store at -80 centigrade

GENE INFORMATION

Gene Name	Gdf11 growth differentiation factor 11 [Mus musculus]
Official Symbol	Gdf11
Synonyms	growth/differentiation factor 11; GDF-11; bone morphogenetic protein 11
Gene ID	14561
mRNA Refseq	NM_010272
Protein Refseq	NP_034402
UniProt ID	Q9Z1W4
Chromosome Location	10; 10 D3
Function	cytokine activity; growth factor activity; protein binding

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