

32-12086: Human Growth and Differentiation Factor-11 (AF)

Gene : GDF11
Gene ID : 10220
Uniprot ID : O95390
Alternative Name : Bone morphogenetic protein 11, BMP11

Description

Source: Genetically modified E.coli.

Predicted MW: Dimer, 12.5/24.9 kDa (109/218 aa)

Growth differentiation factor 11 (GDF-11), also known as bone morphogenetic protein 11 (BMP-11), is a regulator of cell growth and differentiation during muscular and neural development. GDF-11 binds the transforming growth factor-beta receptors ALK4, ALK5, and ALK7 to activate SMAD signaling. In adults, exogenous GDF-11 promotes cardiomyocyte regeneration to reverse age-related cardiac hypertrophy.

Product Info

Amount : 20 µg / 100 µg
Purification : Reducing and Non-Reducing SDS PAGE at $\geq 95\%$
Content : Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
Sterile 10 mM HCl at 0.1 mg/mL
Storage condition : Store at -20°C
Amino Acid : NLGLDCDEHS SESRCCRYPL TVDFEAFGWD WIIAPKRYKA NYCSGQCEYM FMQKYPHTHL
VQQANPRGSA GPCCTPTKMS PINMLYFNDK QQIYGKIPG MVVDRCGCS

Application Note

Endotoxin: Less than $0.1 \text{ ng}/\mu\text{g}$ (1 IEU/ μg) as determined by LAL test.

Biological Activity was determined by Alkaline phosphatase activity in ATDC5 cells at $\leq 100 \text{ ng/mL}$; $\geq 1.0 \times 10^4$ units/mg (typical ED50 is $< 10 \text{ ng/mL}$). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



