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32-20142: Recombinant Human/Murine/Rat GDF-11(Discontinued)

Reactivity: Human, Mouse, Rat

Alternative Name: Growth/Differentiation Factor-11, BMP-11

Description

Source:E.coliGDF-11 is a myostatin-homologous protein that acts as an inhibitor of nerve tissue growth. GDF-11 has been shown to suppress neurogenesis through a myostatin-like pathway, which involves the arrest of the progenitor cell cycle in the G1 phase. Similarities between myostatin and GDF-11, which are 90% identical in their amino acid sequence, s µggest that the regulatory mechanisms responsible for maintaining proper tissue size during neural and muscular development might be the same. Recombinant Human/Murine/Rat GDF-11 is a 25.0 kDa disulfide-linked homodimer containing two 109 amino acid polypeptide chains. It is highly homologous to myostatin/GDF-8, sharing 90% amino acid sequence identity.

Product Info

Amount: $5 \mu g / 20 \mu g$

Purification : Purity: >= 98% by SDS-PAGE gel and HPLC analyses. **Content :** This recombinant protein is supplied in lyophilized form.

Amino Acid: NLGLDCDEHS SESRCCRYPL TVDFEAFGWD WIIAPKRYKA NYCSGQCEYM FMQKYPHTHL

VQQANPRGSA GPCCTPTKMS PINMLYFNDK QQIIYGKIPG MVVDRCGCS

Application Note

Assay #1: $\tilde{A} \square \hat{A}$ Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The expected $\tilde{A} \square \hat{A}$ ED₅₀for this effect is 0.08-0.10 $\tilde{A} \square \hat{A} \mu g/ml$. Assay #2: Determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3/E1cells. The ED₅₀ for this effect is 8-10 ng/ml.