

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982 Email: info@abeomics.com

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 μg / 20 μg

 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} Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The expected \tilde{A} \tilde{A} ED_{50} for this effect is 0.08-0.10 \tilde{A} $\tilde{A}\mu g/ml$. 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.