

Recombinant Human GDF-11

Catalog # PBG10131

Specification

Recombinant Human GDF-11 - Product Information

Recombinant Human GDF-11 - Additional Information

Description

GDF-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 arrest of progenitor cell-cycle in the G1 phase. Similarities between myostatin and GDF-11, which are 90% identical in their amino acid sequence, suggests that the regulatory mechanisms responsible for maintaining proper tissue size during neural and muscular development might be the same. Recombinant human 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.

Biological Activity

The ED₅₀ was determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The expected ED₅₀ for this effect is 0.08-0.10 µg/ml.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is $<0.1 \text{ ng}/\mu\text{g}$ of protein ($<1\text{EU}/\mu\text{g}$).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

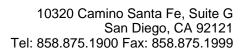
Precautions

Recombinant Human GDF-11 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human GDF-11 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence





• Immunoprecipitation

- Flow Cytomety
 Cell Culture

Recombinant Human GDF-11 - Images