

## Recombinant Human GDF-11

<b>CATALOG #:</b>	4669-20
<b>AMOUNT:</b>	20 µg
<b>LOT #:</b>	_____
<b>SOURCE:</b>	<i>E.coli</i>
<b>PURITY:</b>	>98% by SDS-PAGE and HPLC Endotoxin level is <0.1 ng per g of GDF-11.
<b>MOL. WEIGHT:</b>	25 kDa
<b>FORM:</b>	Lyophilized with no additives

### RECONSTITUTION:

We recommend a quick spin followed by reconstitution in water to a concentration of 0.1 to 1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

### STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated below 0°C. Reconstituted human GDF-11 should be stored at working aliquots at -20°C.

### 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.

### ACTIVITY:

The ED50 was determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 cells. The ED50 for the effect is 0.08-0.1 µg/ml.

**For Research Use Only! Not to be used in human.**

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