Recombinant Human Growth Differentiation Factor 11

Cat. No. GDF11-242 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GDF-11 produced in*E.coli*is a 25.0 kDa disulfide-linked homodimer containing two 109 amino acid polypeptide chains.
Species	Human
Source	E.coli
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.
Purity	> 98% by SDS-PAGE and HPLC analysis.
Endotoxin level	< 0.1 ng per μg of Galectin-1.
Stabilizer	None.
Formulation	Lyophilized.
Biologically 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.

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Reconstitution	The human GDF-11 should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted into other aqueous buffers and stored at 4℃for one week or -20℃for future use.
Stability	The lyophilized protein is stable for at least 2 years from date of receipt at -20℃. Reconstituted GDF-11 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	GDF11 growth differentiation factor 11 [Homo sapiens]
Synonyms	GDF11; growth differentiation factor 11; BMP11; BMP-11; bone morphogenetic protein 11; GDF-11
Gene ID	10220
mRNA Refseq	NM_005811
Protein Refseq	NP_005802
MIM	603936
UniProt ID	O95390
Chromosome Location	12q13.13
Function	cytokine activity; growth factor activity; protein binding

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