

## GDF11

## Recombinant Human GDF-11 / BMP-11

<b>Catalog No.</b>	CRG403B	<b>Quantity:</b>	20 µg
<b>Alternate Names:</b>	Bone Morphogenetic Protein-11, Growth Differentiation Factor-11		
<b>Description:</b>	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. It is highly homologous to myostatin/GDF-8 sharing 90% amino-acid sequence identity.		
<b>UniProt ID:</b>	O95390		
<b>Gene ID:</b>	10220		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	25.0 kDa (109 aa)		
<b>Formulation:</b>	Lyophilized from PBS		
<b>Purity:</b>	> 98% as determined by SDS-PAGE and HPLC analyses		
<b>Endotoxin Level:</b>	< 1 EU/µg		
<b>Biological Activity:</b>	ED <sub>50</sub> typically 0.08-0.1 µg/ml, determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells.		
<b>Amino Acid Sequence:</b>	NLGLDCDEHS SESRCCRYPL TVDFEAFGWD WIIAPKRYKA NYCSGQCEYM FMQKYPHTHL VQQANPRGSA GPCCTPTKMS PINMLYFNDK QQIYKGKIPG MVDRCGCS		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add PBS or medium to the vial to fully solubilize the protein to a concentration ≥ 100 µg/ml. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein such as 0.1% BSA and store in working aliquots at -20°C to -80°C.		
<b>Storage &amp; Stability:</b>	Lyophilized protein is stable for 1 year at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



**Cell Sciences®**  
65 Parker Street  
Unit 11  
Newburyport, MA 01950

Toll Free: 888-769-1246  
Phone: 978-572-1070  
Fax: 978-992-0298

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)