

GDF-11 active protein

Human GDF-11

CATALOG # AAA79190	HOST E Coli	REACTIVITY Human
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PRODUCT SYNONYMS

GDF-11; Human GDF-11; Recombinant Human GDF-11/BMP-11; GDF-11 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 98% by SDS-PAGE and HPLC analysis
Form/Format	Lyophilized
Sequence	NLGLDCDEHS SESRCCRYPL TVDFEAFGWD WIIAPKRYKA NYCSGQCEYM FMQKYPHTHL VQQANPRGSA GPCCTPTKMS PINMLYFNDK QQIYGKIPG MVVDRCGCS
Sequence Length	407
Endotoxin Level	< 0.1 ng per ug of Galectin-1
Reconstitution	The human GDF-11 should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. Note: Keep pH below 5.0. <i>Do not vortex.</i> This solution can be stored at 2-8 degree C for up to 1 week. For extended storage, it is recommended it further dilute in a buffer and store in working aliquots at -20 degree C to -80 degree C.
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 ug/ml.
Preparation and Storage	The lyophilized protein is stable at room temperature for up to 1 month at 4 degree for 6 months. Working aliquots stored with a carrier protein are stable for at least 6 months at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for GDF-11 active protein	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.
Product Categories/Family for GDF-11 active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031613
NCBI GeneID	10220
NCBI Accession #	NP_005802.1

NCBI GenBank Nucleotide #	NM_005811.3
UniProt Accession #	O95390 ; Q9UID1 ; Q9UID2
Molecular Weight	25.0 kDa
NCBI Official Full Name	growth/differentiation factor 11
NCBI Official Synonym Full Names	growth differentiation factor 11
NCBI Official Symbol	GDF11
NCBI Official Synonym Symbols	BMP11; BMP-11
NCBI Protein Information	growth/differentiation factor 11; GDF-11; bone morphogenetic protein 11
UniProt Protein Name	Growth/differentiation factor 11
UniProt Gene Name	GDF11
UniProt Synonym Gene Names	BMP11; GDF-11; BMP-11
UniProt Entry Name	GDF11_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/gdf-11/79190>