

GDF11 active protein

GDF11 protein

CATALOG # AAA14381	HOST E. coli
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PRODUCT SYNONYMS

GDF11; GDF11 protein; BMP-11 protein; GDF 11 protein; GDF-11 protein; GDF-11; Growth/Differentiation Factor-11 protein; GDF 11; GDF11 active protein

PRODUCT SPECIFICATIONS

Host	E. coli
Purity/Purification	> 98% by SDS-PAGE analysis and HPLC
Form/Format	Sterile Filtered through a 0.2 micron filter. Lyophilized with no additives. Centrifuge vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0mg/ml. Keep pH below 5.0. Do not vortex.
Concentration	20 ug per vial: lyophilized (varies by lot)
Sequence	Region of GD F11 protein correspond to amino acids NLGLD CDEHSSSRC CRYPLTVDFE AFGWDWIIAP KRYKANYCSG QCEYMFQKY PHTLVQQAN PRGSAGPCCT PTKMSPINML YFNDKQIIY GKIPGMVVDRCGCS.
Grade	Recombinant
Species	Human
Contaminants	Endotoxin level is <0.1ng/ug
Biological Activity	The biological activity is determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3/E1 cells. The ED ₅₀ for this effect is 8 to 10 ng/ml.
Biohazard	Use normal laboratory precautions and techniques when handling this reagent.
Preparation and Storage	Ships ambient or refrigerated. Upon receipt store at -20°C. After reconstituted, the undiluted solution is stable at 4°C for up to 1 week. For extended storage, dilute further in a buffer containing a carrier protein (0.1% BSA) and store in working aliquots at -20°C to -80°C. Avoid repeat freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for GDF11 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.
Product Categories/Family for GDF11 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	25kDa
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
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-active-protein/gdf11/14381>