

Bioactive

# GDF11 (Human) Recombinant Protein

Catalog # P8697

Size 20 ug

## Specification

<b>Product Description</b>	Human GDF11 recombinant protein expressed in <i>Escherichia coli</i> .
<b>Sequence</b>	NLGLDCDEHSSSRCCRYPLTVDFEAFGWDWIAPKRYKANYCSGQCEYMFMQKYPHTHLVQQA NPRGSAGPCCTPTKMSPINMLYFNDKQQIYGKIPGMVVDRCGCS
<b>Host</b>	Escherichia coli
<b>Theoretical MW (kDa)</b>	24.9
<b>Form</b>	Lyophilized
<b>Preparation Method</b>	<i>Escherichia coli</i> expression system
<b>Purity</b>	> 95% as determined by SDS-PAGE.
<b>Activity</b>	ED <sub>50</sub> < 0.2-0.3 ng/mL, measured by the ability to inhibit alkaline phosphatase activity in ATDC5 cells, corresponding to a specific activity of 5 x 10 <sup>6</sup> units/mg.
<b>Storage Buffer</b>	Protein(1 mg/mL) was lyophilized from a solution containing 0.1% TFA. Reconstitute the lyophilized powder in ddH <sub>2</sub> O to 100 ug/mL.
<b>Storage Instruction</b>	Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

## Applications

- Functional Study

## Gene Info — GDF11

Entrez GeneID	<a href="#">10220</a>
Protein Accession#	<a href="#">O95390</a>
Gene Name	GDF11
Gene Alias	BMP-11, BMP11
Gene Description	growth differentiation factor 11
Omim ID	<a href="#">603936</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	<p>The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in mice and Xenopus suggest that this protein is involved in mesodermal formation and neurogenesis during embryonic development. [provided by RefSeq]</p>
Other Designations	bone morphogenetic protein 11

## Disease

- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)