

## GDF11 Protein, Human, Recombinant (His & SUMO)

### General Information

Synonyms:	GDF11;Growth/differentiation factor 11;BMP11;GDF-11;Bone morphogenetic protein 11 (BMP-11)
Protein Construction:	299-407 aa
Species:	Human
Expression Host:	E. coli
Accession:	O95390
Molecular Weight:	28.5 kDa (predicted)
AA Sequence:	NLGLDCDEHSSERCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGQCEYMFQMFKYPHTHLVQQANPRGSAG PCCTPTKMSPINMLYFNDKQQIIYGKIPGMVVDRCGCS

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Secreted signal that acts globally to regulate anterior/posterior axial patterning during development. May play critical roles in patterning both mesodermal and neural tissues. It is required for proper vertebral patterning and orofacial development. Signals through activin receptors type-2, ACVR2A and ACVR2B, and activin receptors type-1, ACVR1B, ACVR1C and TGFBR1 leading to the phosphorylation of SMAD2 and SMAD3.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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