



Recombinant Protein Technical Manual

Recombinant Human GDF11/BMP1 Protein

RPES0139

Product Data:

Product SKU: RPES0139

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: O95390

Protein Information:

Molecular Mass: 12.6 kDa

AP Molecular Mass: 14 kDa

Tag:

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Growth/differentiation factor 11;GDF1;Bone morphogenetic protein 11;BMP1

Immunogen Information:

Sequence: Asn299-Ser407

Background:

Growth/differentiation factor 11(GDF1) is a secreted protein, which belongs to the transforming growth factor beta superfamily. GDF1 controls anterior-posterior patterning by regulating the expression of Hox genes. The secreted signal acts globally to specify positional identity along the anterior/posterior axis during development. GDF11 has been shown to suppress neurogenesis through a pathway similar to that of myostatin, including stopping the progenitor cell-cycle during G-phase. The similarities between GDF11 and myostatin imply a likelihood that the same regulatory mechanisms are used to control tissue size during both muscular and neural development.