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GDF11
Recombinant Human/Mouse/Rat GDF11 / BMP-11

Catalog No.	CRH306A	**Quantity:**	5 µg
	CRH306B		100 µg
	CRH306C		1 mg

Alternate Names: BMP-11

Description: Growth differentiation factor 11 (GDF11), also known as bone morphogenetic protein 11 (BMP-11), is a regulator of cell growth and differentiation during muscular and neural development. GDF-11 binds the transforming growth factor-beta receptors ALK4, ALK5, and ALK7 to activate SMAD signaling. In adults, exogenous GDF-11 promotes cardiomyocyte regeneration to reverse age-related cardiac hypertrophy. Recombinant human, mouse and rat GDF11 have 100% sequence homology.

Gene ID: 10220 human

Protein Accession No: O95390 human

Source: *E. coli*

Molecular Weight: Dimer, 12.5/24.9 kDa (109/218 aa)

Formulation: Lyophilized from a sterile-filtered solution containing 0.1% Trifluoroacetic Acid (TFA)

Purity: ≥95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤1 EU/µg by kinetic LAL analysis

Biological Activity: ED_{50} is ≤ 100 ng/m, determined by alkaline phosphatase activity induced in ATDC5 cells.

Specific Activity: ≥ 1.0×10^4 U/mg

Amino Acid Sequence: NLGLDCDEHS SESRCCRYPL TVDFEAFGWD WIIAPKRYKA NYCSGQCEYM FMQKYPHTHL VQQANPRGSA GPCCTPTKMS PINMLYFNDK QQIIYGKIPG MVVDRCGCS

Reconstitution: **Centrifuge vial prior to opening**. Add sterile distilled water to reconstitute to a recommended concentration of 0.1 mg/mL and gently pipet solution up and down sides of vial. **DO NOT VORTEX**.

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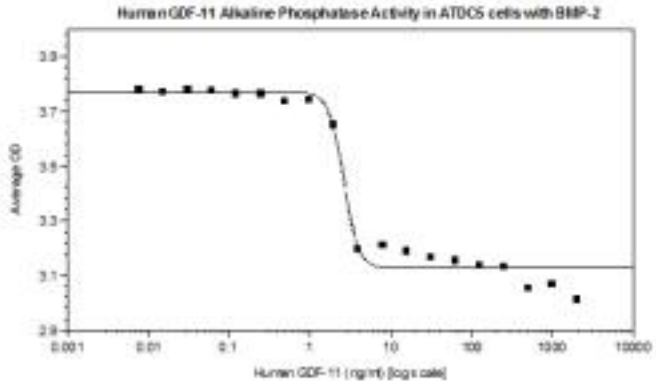
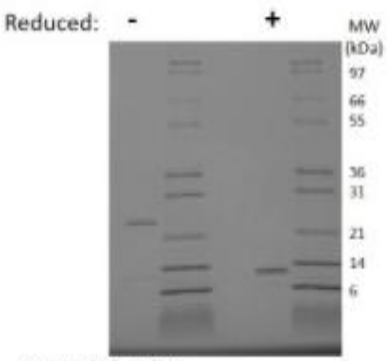
Storage & Stability: **Upon receipt,** store as supplied for up to one year at -20°C. **Upon reconstitution**, the preparation is stable for up to one month at 2-8°C. For long term storage, reconstitute in working aliquots in 0.1% BSA solution and store at -80°C. **Avoid repeated freeze-thaw cycles**.





Human GDF-11 Gel

Figure: 1 ug run under (+) reducing conditions and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human GDF-11 is a homodimer with a total predicted MW of 24.9 kDa (each monomer 12.5 kDa).

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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