

GDF5

Recombinant Human GDF-5, Animal Free

Catalog No.	CRH307A-AF	Quantity:	10 µg
	CRH307B-AF		100 µg
	CRH307C-AF		1 mg

Alternate Names: Growth/differentiation factor 5, Bone morphogenetic protein 14, BMP-14, Cartilage-derived morphogenetic protein 1, CDMP-1, Lipopolysaccharide-associated protein 4, LAP-4, LPS-associated protein 4, Radotermin

Description: Growth differentiation factor 5 (GDF-5) is a member of the bone morphogenetic protein (BMP) and transforming growth factor beta (TGF-β) families and functions to regulate cell proliferation and differentiation in embryonic and adult tissues. GDF-5 is expressed in the central nervous system and promotes the survival of dopaminergic neurons in animal models of Parkinson's disease. GDF-5 is also important during chondrogenesis and chondrocyte differentiation.

UniProt ID: P43026

Source: *E. coli*
Manufactured without Animal-derived products, in an Animal Free facility.

Molecular Weight: Dimer, 13.7/27.4 kDa (121/242 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: ≤ 0.1 EU/µg by kinetic LAL analysis

Biological Activity: ED₅₀ ≤ 1200 ng/ml, by alkaline phosphatase activity in ATDC5 cells.

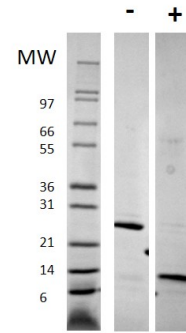
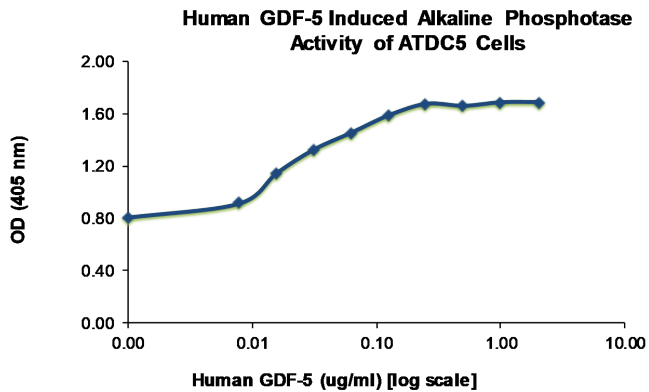
Specific Activity: ≥ 1,000 U/mg

Amino Acid Sequence: MAPLATRQGK RPSKNLKARC SRKALHVNFK DMGWDDWIIA PLEYEAFHCE
GLCEFPLRSH LEPTNHAVIQ TLMNSMDPES TPPTCCVPTR LSPISILFIDSA
NNVYKQY EDMVVESCGC R

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.** Allow several minutes for reconstitution.

Storage & Stability: Store unopened at -20°C to -80°C for up to 1 year. Recommended to store the stock solution in aliquots at -20°C to -80°C. **Avoid freeze/thaw cycles.**





Human GDF-5
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human GDF-5 is predicted to be a homodimer with a total MW of 27.4 kDa.

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

