cellsciences.com

Recombinant Human GDF-5

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

Alternate Names: CDMP-1

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.
Source: Genetically modified E.coli.

Protein Accession No: P43026

Source: *E. coli*

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: ≤1 EU/µg by kinetic LAL analysis

Biological Activity: Alkaline phosphatase activity in ATDC5 cells. Typical ED50 is < 25 ng/mL

Specific Activity: ≥ 8.3 x 10^2 U/mg

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

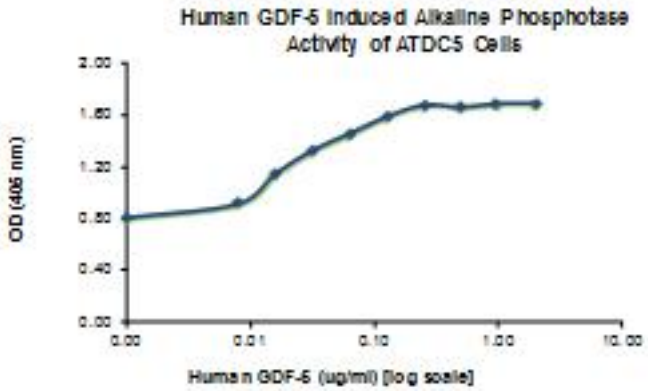
Reconstitution: **Centrifuge vial prior to opening**. Add sterile distilled water to reconstitute to a recommended concentration of 0.1 mg/mL and gently pipet solution up and down sides of vial. **DO NOT VORTEX.** Allow several minutes for reconstitution. A small amount of precipitate may be seen.

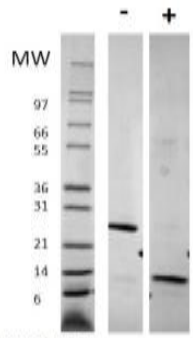
Storage & Stability: **Upon receipt,** store desiccated at -20 °C for up to 1 year. **Upon reconstitution**, the preparation is stable for up to one month at 2-8 °C. **For long term storage** reconstitute in working aliquots containing 0.1% BSA and store at -80 °C. **Avoid repeated freeze-thaw cycles.**

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com





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.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com