

Product information



GDF-5, 382-501aa

Cat. No. IBATGP0334

Human, His-tagged, Recombinant, *E.coli*

Full name: Growth differentiation factor 5

NCBI Accession No.: NP_000548

Synonyms: BMP14, CDMP1, LAP4, OS5, SYNS2

Description: Growth differentiation factor 5(GDF-5) is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This protein plays a role in chondrogenesis and chondrocyte metabolism, tendon and ligament tissue formation, and bone repair. It also increases the survival of neurones that respond to a neurotransmitter called dopamine, and is a potential therapeutic molecule associated with Parkinson's disease. GDF-5, fused to His-tag at N-terminus, was expressed as insoluble protein aggregate in *E.coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

<p>Form: Liquid. In 10 mM Sodium citrate pH 3.5, 10% glycerol</p> <p>Molecular Weight: 15.8 kDa (141aa)</p> <p>Purity: > 95% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p> <p>Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)</p>	<p>(kDa)</p> <p>40</p> <p>28</p> <p>18</p> <p>13.5</p> <p>8.5</p>
<p>Sequences of amino acids:</p> <p>MGSSHHHHHH SSGLVPRGSH MAPLATRQ GK RPSKNLKARC SRKALHVNFK DMGWDDWIIA PLEYEAFHCE GLCEFPLRSH LEPTNHAVIQ TLMNSMDPES TPPTCCVPTR LSPISILFID SANNVVYKQY EDMVVESCGC R</p>	

General references:

Feng G., et al. (2008). *Growth Factor*. **26**(3):132-42

Sullivan AM., et al. (2005). *J Anat*. **207**(3):219-26.

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

Product information



Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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