Datasheet for ABIN2468474

# GDF5 Protein

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## Overview

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| Quantity: | 0.01 mg |
| Target: | GDF5 |
| Origin: | Mouse |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Biological Activity: | Active |

## Product Details

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| Sequence: | APLANRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAFHCEG LCEFPLRSHL EPTNHAVIQT LMNSMDPEST PPTCCVPTRL SPISILFIDS ANNVVYKQYE DMVVESCGCR |
| Characteristics: | Endotoxin level is less than 0.1 ng per μg (1EU/μg). |
| Purity: | < 98 % by SDS-PAGE gel and HPLC analyses. |
| Endotoxin Level: | Endotoxin level is less than 0.1 ng per μg (1 EU/μg). |

## Target Details

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| Target: | GDF5 |
| Alternative Name: | GDF-5 (GDF5 Products) |
| Background: | GDF-5 is expressed in long bones during embryonic development and postnatally in articular cartilage. Mutations in the GDF-5 gene have been implicated in Grebe Syndrome, which is characterized by short stature, extra digits, short and deformed extremities, and in Hunter-Thompson type dwarfism. The mature and functional form of GDF-5 is a homodimer of two |

## Target Details

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| | 120 amino-acid polypeptide chain (monomers) linked by a single disulfide bond. Each GDF-5 monomer is expressed as the C-terminal part of a precursor polypeptide, which also contains a 27 amino-acid signal peptide and a 348 amino-acid propeptide. This precursor undergoes intracellular dimerization, and upon secretion it is processed by a furin-type protease. Recombinant murine GDF-5 is a 27.0 kDa homodimeric disulfide-linked protein consisting of two 120 amino acids. |
| Gene ID: | 8200 |
| NCBI Accession: | NP_000548 |
| OMIM: | 4503969 |
| UniProt: | P43026 |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Handling Advice: | As with any protein, exposing GDF-5 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature. |
| Storage: | -20 °C |
| Storage Comment: | The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted GDF-5 stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C. |
| Expiry Date: | 24 months |