

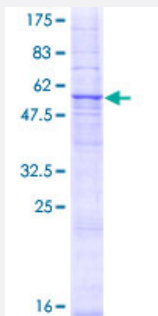
Full-Length

## GDF1 (Human) Recombinant Protein (P01)

Catalog # H00002657-P01

Size 25 ug, 10 ug

### Applications



### Specification

#### Product Description

Human GDF1 full-length ORF ( AAH22450.1, 1 a.a. - 337 a.a.) recombinant protein with GST-tag at N-terminal.

#### Sequence

MAAAGPAAGPTGPEPMPSYAQLVQRGWGSALAAARGCTDCGWGLARRGLAEHAHLAPPELLL  
LALGALGWTALRSAATARLFRPLAKRCCLQPRDAAKMPESAWKFLFYLCWSYSAYLLFGTDYP  
FFHDPPSVFYDWTPGMAVPRDIAAA YLLQGSFYGHSIYATLYMDTWRKDSVVMLLHHVVTILVSS  
YAFRYHNVGILVFLHDISDVQLEFTKLNIFYKSRGGSYHRLHALAADLGCLSFGFSWFWFRL YWF  
PLKVLYATSHCSLRTVPDIPFYFFFNALLLLLTLMNLYWFLYVAFAAKVL TGQVHELKDLREYDTAE  
AQLKPSKAE

#### Host

Wheat Germ (in vitro)

#### Theoretical MW (kDa)

64.4

#### Interspecies Antigen Sequence

Rat (32)

#### Preparation Method

[in vitro wheat germ expression system](#)

#### Purification

Glutathione Sepharose 4 Fast Flow

#### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

#### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note**

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — GDF1

**Entrez GeneID**[2657](#)**GeneBank Accession#**[BC022450.1](#)**Protein Accession#**[AAH22450.1](#)**Gene Name**

GDF1

**Gene Alias**

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**Gene Description**

growth differentiation factor 1

**Omim ID**[187500](#) [217095](#) [602880](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site that is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in rodents suggest that this protein is involved in the establishment of left-right asymmetry in early embryogenesis and in neural development in later embryogenesis. This protein is transcribed from a bicistronic mRNA that also encodes the longevity assurance gene. [provided by RefSeq]

**Other Designations**

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## Publication Reference

- [mTNF reverse signalling induced by TNF \$\alpha\$  antagonists involves a GDF-1 dependent pathway: implications for Crohn's disease.](#)

Derer S, Till A, Haesler R, Sina C, Grabe N, Jung S, Nikolaus S, Kuehbachner T, Groetzinger J, Rose-John S, Rosenstiel PC, Schreiber S.

Gut 2013 Mar; 62(3):376.

Application: Func, Human, HEK 293, PBMCs

## Disease

- [Cleft Lip](#)
- [Cleft Palate](#)
- [Genetic Predisposition to Disease](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)