

**GDF-15, human recombinant protein**  
**MIC1, PDF, PLAB, PTGFB**  
**Catalog # PBV10309r****Specification**

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**GDF-15, human recombinant protein - Product info**

Primary Accession [Q99988](#)  
Calculated MW **26.8 kDa KDa**

**GDF-15, human recombinant protein - Additional Info**

Gene ID **9518**  
Gene Symbol **GDF-15**  
**Other Names**  
Growth/differentiation factor 15, GDF-15, Macrophage inhibitory cytokine 1, MIC-1, NSAID-activated gene 1 protein, NAG-1, NSAID-regulated gene 1 protein, NRG-1, Placental TGF-beta, Placental bone morphogenetic protein, Prostate differentiation factor

Gene Source **Human**  
Source **E. coli**  
Assay&Purity **SDS-PAGE; ≥95%**  
Assay2&Purity2 **HPLC;**  
Recombinant **Yes**  
Results **1-2 µg/ml**  
Sequence **MARNGDHCPL GPGRCCRLHT VRASLEDLGW  
ADWVLSPREV QVTMCIGACP SQFRAANMHA  
QIKTSLHRLK PDTVPAPCCV PASYNPMVLI  
QKTDGTGVSQ TYDDLLAKDC HCI**

**Target/Specificity**  
GDF-15

**Application Notes**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 5 mM acetic acid at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

**Format**

Lyophilized protein

**Storage**

-20°C; Sterile filtered and lyophilized with no additives

**GDF-15, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **GDF-15, human recombinant protein - Images**

#### **GDF-15, human recombinant protein - Background**

Growth and differentiation factor 15 (GDF-15) is a TGF $\beta$  family member, made by in the placenta and heart tissues, that has a role in regulating inflammatory and apoptotic pathways. GDF-15 has become an emerging marker of early heart disease and has the potential as being used as a molecule for screening patients for early heart failure. Recombinant human GDF-15 is a non-glycosylated, disulfide linked homodimer. It is comprised of two identical 120 amino acid monomers and has a total molecular mass of 26.8 kDa.

#### **GDF-15, human recombinant protein - References**

Hromas R., et al. Biochim. Biophys. Acta 1354:40-44(1997).  
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Bootcov M.R., et al. Proc. Natl. Acad. Sci. U.S.A. 94:11514-11519(1997).  
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Kalline N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.