

## GFH171 Recombinant Human GDF-15

### Description

Growth Differentiation Factor 15 (GDF-15) is a member of the Transforming Growth Factor  $\beta$  (TGF- $\beta$ ) family and is made by the placenta and cardiovascular tissues. GDF-15 regulates inflammatory and apoptotic pathways during cellular stress and injury. GDF-15 is emerging as a biomarker of early heart disease, such that increased levels of circulating GDF-15 are associated with an increased risk of developing heart failure.

<b>Length</b>	113 / 226 aa
<b>Molecular Weight</b>	12.4 / 24.8 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	Q99988
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

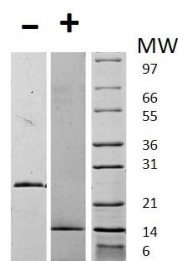
### Specifications

<b>Alternative Names</b>	Growth Differentiation Factor 15, GDF15, GDF 15, MIC-1, placental TGF $\beta$ , prostate differentiation factor
<b>Biological Activity</b>	Activity to be determined
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	MARNGDHCPL GPGRCCLHT VRASLEDLGW ADWVLSPREV QVTMCIGACP SQFRAANMHA QIKTSLHRLK PDTVPAPCCV PASYNPMVLI QKTDGTGVS LQ TYDDLAKDC HCI

### Preparation and Storage

<b>Reconstitution</b>	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 water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human GDF-15 has a predicted Mw of 24.8 kDa (each monomer is 12.4 kDa).