

**Datasheet for 009-001-V09-0100****rHuman GDF-15 (D variant) Protein****Overview**

<b>Description:</b>	Human Growth and Differentiation Factor-15 (D variant) Recombinant Protein - 009-001-V09-0100
<b>Item No.:</b>	009-001-V09-0100
<b>Size:</b>	100 µg
<b>Applications:</b>	SDS-PAGE
<b>Origin:</b>	Human
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	Growth and Differentiation Factor 15 (GDF-15) is a TGFβ family member, made by 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 D is a non-glycosylated, disulfide linked homodimer, containing two identical 113 amino acid chains, with a total molecular weight of 24.5 kDa. There is a His to an Asp substitution at position 7.
<b>Synonyms:</b>	Macrophage inhibitory cytokine 1 (MIC-1), NSAID-activated gene 1 protein (NAG-1), NSAID-regulated gene 1 protein (NRG-1), Placental TGFβ, Placental bone morphogenetic protein, Prostate differentiation factor
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

**Target Details**

<b>Gene Name:</b>	GDF15
<b>Purity/Specificity:</b>	Growth and Differentiation Factor-15 (D variant) purity was determined to be greater than 95% as determined by analysis by HPLC, UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.

**Relevant Links:**

- [UniProtKB - Q99988](#)

## Application Details

<b>Tested Applications:</b>	SDS-PAGE
<b>Application Note:</b>	Growth and Differentiation Factor-15 Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Growth and Differentiation Factor-15 in immunological assays.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>Other:</b>	Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by the inhibition of DU-145 cells and is typically 1-2 $\mu$ g/mL.

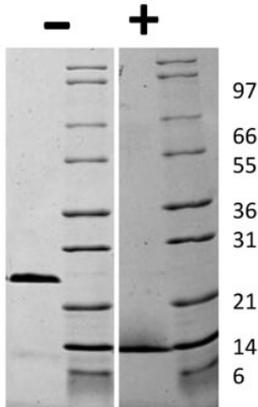
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Buffer:</b>	0.1% Trifluoroacetic acid
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	100 $\mu$ L
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at $-20^{\circ}$ C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at $-20^{\circ}$ C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

## Images



#### SDS-PAGE

SDS-PAGE of Human Growth and Differentiation Factor-15 (D variant) Recombinant Protein. Lane 1: 1 µg Human GDF-15 D Variant in non-reducing conditions (-). Lane 2: Molecular weight marker. Lane 3: 1 µg Human GDF-15 D Variant in reducing conditions (+). Lane 4: Molecular weight marker. Human GDF-15 D Variant is predicted to be a homodimer with a predicted MW of 24.5 kDa.

## Disclaimer

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