

## GDF15

### Recombinant Human Growth Differentiation Factor 15D

<b>Catalog No.</b>	CS311A	<b>Quantity:</b>	5 µg
	CS311B		20 µg
	CS311C		1 mg
	CS311D		100 µg

**Alternate Names:** MIC-1, Placental TGFbeta, Prostate differentiation factor

**Description:** Growth and Differentiation Factor 15 (GDF-15) is a TGFbeta 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. The GDF-15 D variant has a Histidine to an Aspartate substitution at amino acid position 7.

**Gene ID:** 9518

**UniProt ID:** P99988

**Source:** *E. coli*

**Molecular Weight:** 12.4/24.8 kDa (113/226 aa)

**Formulation:** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

**Purity:** ≥ 95% determined by reducing and non-reducing SDS-PAGE

**Endotoxin Level:** ≤ 1 EU/µg by kinetic LAL analysis

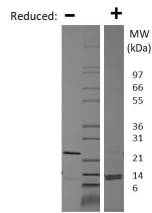
**Amino Acid Sequence:** MARNGDDCPL GPGRCCRLHT VRASLEDLGW ADWVLSPREV QVTMCIGACP  
SQFRAANMHA QIKTSLHRLK PDTVPAPCCV PASYNPMVLI QKTD TGVS LQ  
TYDDLLAKDC HCI

**Reconstitution:** **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 a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Storage & Stability:** Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store at -20°C to -80°C for up to 1 year.

Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, prepare working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution.

**Avoid repeated freeze-thaw cycles.**



**Human GDF-15 D Variant Gel**

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human GDF-15 D variant is a homodimer with a predicted MW of 24.8 kDa (each monomer is 12.4 kDa).

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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