

Active Recombinant Mouse Gdf15 Protein, His-Tagged

Cat. No. Gdf15-11091M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse GDF-15, His Tag is expressed from E. coli cells. It contains AA Ser 189 - Ala 303 (Accession # Q9Z0J7-1). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: His
Species	Mouse
Source	E. coli
ProteinLength	189-303 aa
Description	Growth Differentiation Factor 15 (GDF-15), also called Macrophage Inhibitory Cytokine 1 (MIC-1). Expression of MIC-1 mRNA in monocytoid cells is up-regulated by a variety of stimuli associated with activation, including interleukin 1 β , tumor necrosis factor α (TNF- α), interleukin 2, and macrophage colony-stimulating factor but not interferon γ , or lipopolysaccharide (LPS). It is highly expressed in cardiomyocytes, adipocytes, macrophages, endothelial cells, and vascular smooth muscle cells in normal and pathological condition. GDF-15 increases during tissue injury and inflammatory states and is associated with cardiometabolic risk. Increased GDF-15 levels are associated with cardiovascular diseases such as hypertrophy, heart failure, atherosclerosis, endothelial dysfunction, obesity, insulin resistance, diabetes, and chronic kidney diseases in diabetes. Increased GDF-15 level is linked with the progression and prognosis of the disease condition.
Form	Lyophilized from 0.22 μ m filtered solution in 0.085%TFA 30%ACN with trehalose as

 Tel: 1-631-559-9269 1-516-512-3133

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	protectant.
Bio-activity	Immobilized Mouse GDF-15, His Tag at 1 µg/mL (100 µL/well) can bind Human GFR alpha-like, Fc Tag with a linear range of 0.3-10 ng/mL.
Molecular Mass	The protein has a calculated MW of 14.6 kDa. The protein migrates as 16-17 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Gdf15 growth differentiation factor 15 [Mus musculus]
Official Symbol	GDF15
Synonyms	GDF15; growth differentiation factor 15; growth/differentiation factor 15; GDF-15; macrophage inhibiting cytokine-1; SBF; MIC-1; NAG-1;

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Gene ID	23886
mRNA Refseq	NM_011819
Protein Refseq	NP_035949
UniProt ID	Q9Z0J7

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