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Datasheet for 009-001-U95-0100

rHuman GDF-15 Protein

Overview

Description:	Human Growth and Differentiation Factor-15 Recombinant Protein - 009-001-U95-0100
Item No.:	009-001-U95-0100
Size:	100 µg
Applications:	SDS-PAGE
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	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 immerging 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, containing two identical 113 amino acid chains, with a total molecular weight of 24.5 kDa.
Synonyms:	MIC-1, Placental TGFβ, Prostate differentiation factor
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	GDF15
Purity/Specificity:	Growth and Differentiation Factor-15 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

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

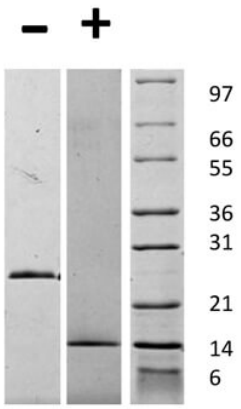
Formulation

Physical State:	Lyophilized
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at -20° 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° 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.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

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

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