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Datasheet for ABIN4986879 GDF15 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	GDF15
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.625-1000 pg/mL
Minimum Detection Limit:	15.625 pg/mL
Application:	ELISA

Product Details

Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (citrate), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Natural and recombinant Human GDF-15 Ligand
Sensitivity:	7 pg/mL
Material not included:	 Microplate reader. Pipettes and pipette tips. EP tube Deionized or distilled water.

Target Details

|--|--|--|

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Target Details		
Alternative Name:	GDF-15 (GDF15 Products)	
Background:	Growth and differentiation factor-15 (GDF-15), also known as macrophage inhibitory cytokine-	
	1(MIC-1), placental transforming growth factor- β , prostate-derived factor, and placental bone	
	morphogenetic protein, is a divergent member of the transforming growth factor beta (TGF- eta)	
	superfamily (1 - 3). GDF-15 is initially synthesized as a 40 kDa inactive precursor protein. It is	
	then proteolytically cleaved to release the active C-terminal fragment, which is assembled into a	
	disulfide-linked homodimer of 28 kDa to become biologically active GDF-15 (1, 4). In humans,	
	GDF-15 is predominantly expressed in the placenta, with low levels in the kidney, pancreas, and	
	prostate. However, its expression can be rapidly induced by cytokines such as interleukin-1 and	
	TGF- β (1 - 3).GDF-15 has diverse biological functions. Early studies have shown that low serum	
	GDF-15 levels correlate with miscarriages, indicating that it might be able to suppress	
	inflammation in early pregnancy (5, 6). GDF-15 also plays an important role in tumorigenesis	
	and metastasis. It has been observed that in many types of cancers, such as colorectal, breast,	
	and prostate, the expression of GDF-15 is dramatically increased (7 - 9). Additionally, in cancer	
	patients, serum levels of GDF-15 are elevated, which are of value in disease diagnosis and	
	stratification (10 -12). GDF-15 is strongly induced by the tumor suppressor gene p53 and other	
	anti-tumorigenic agents, such as the non-steroidal anti-inflammatory drugs and peroxisome	
	proliferators-activated receptor $\gamma.$ These findings suggest that GDF-15 may be a downstream	
	target of those signaling pathways that regulate cell cycle arrest and apoptosis (13 - 15).	
	Through the modulation of neuronal pathways important in the regulation of appetite and	
	energy homeostasis, GDF-15 mediates cancer-induced anorexia and weight loss (16).	
Pathways:	SARS-CoV-2 Protein Interactome	
Application Details		
Application Notes:	Detection Wavelength: 450 nm	
Sample Volume:	20 µL	

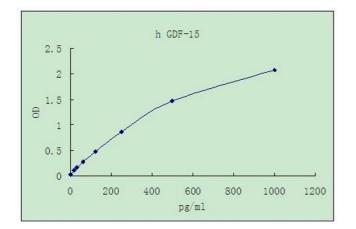
Assay Time:	3 h
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:

4 °C

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ELISA

Image 1.

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