Human growth differentiation factor 2,GDF2 ELISA Kit

Product Code	CSB-E11769h
Abbreviation	GDF2
Target Name	growth differentiation factor 2
Uniprot No.	Q9UK05
Alias	BMP-9, BMP9, bone morphogenetic protein 9
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma,tissue homogenates
Detection Range	3.9 pg/mL-250 pg/mL
Sensitivity	0.98 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Others
Gene Names	GDF2
Tag Info	quantitative
Protein Description	Sandwich

Description

This human GDF2 ELISA kit employs the quantitative sandwich enzyme immunoassay technique to measure the levels of human GDF2 in serum, plasma, or tissue homogenates. It also uses the enzyme-substrate chromogenic reaction to visualize and analyze the analyte levels through the color intensity. The intensity of the colored product is in direct proportion to the GDF2 levels in the sample and is measured at 450 nm through a microplate reader.

GDF2, also known as BMP9, is a circulating vascular quiescence factor that possesses a high affinity for the BMPR2/ALK1 complex. Under physiological conditions, BMP9 is primarily expressed and secreted by the liver. BMP9 protects endothelial cells from apoptosis and excessive proliferation, inhibits vascular permeability, modulates vascular endothelial differentiation, promotes angiogenesis, and suppresses arteriosclerosis. BMP9 also participates in the regulation of several biological activities, including iron ion balance, cartilage formation, angiogenesis, the differentiation of neurons, as well as glucose and lipid metabolism.

Target Details	This protein is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in rodents suggest that this protein plays a role in the adult liver and in differentiation of cholinergic central nervous system neurons.
Product Precision	
Linearity	
Recovery	
Typical	
Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E11769h.pdf","filename":"MSDS"}}