

## GDF-11 in Human Serum

<b>Method:</b>	Liquid Chromatography-Tandem Mass Spectrometry (LC/MS/MS)
<b>Description:</b>	<p>GDF11 is expressed in many tissues, including skeletal muscle, pancreas, kidney, nervous system, and retina. It's expression is elevated in young animals. GDF11 has pro-neurogenic, pro-angiogenic properties, induces CNS patterning and has been proposed as a "rejuvenating factor"</p> <p>In the assay Human serum/plasma was denatured, reduced and alkylated, followed by pH-based fractionation using cation ion exchange SPE; appropriate elution fraction was digested with trypsin. After desalting and concentrating of tryptic digest, the peptide mixture was separated and eluted by liquid chromatography followed by mass spectrometric analysis operated in positive electrospray ionization mode. The most intensive and unique proteotypic peptides from GDF-11 and GDF-8 as surrogated peptides along with heavy-labeled unique peptides as internal standards were used for quantitative determination of GDF-11 and GDF-8</p>

### Collection and Performance Characteristics

<b>Tube type:</b>	Preferred: SST Alternate: EDTA Plasma
<b>Minimum Volume:</b>	0.5 mL
<b>Special Processing Considerations</b>	
<b>Lowest Reportable Value:</b>	1.0 ng/mL
<b>Dynamic range:</b>	1-100 ng/mL
<b>Precision:</b>	Intra-assay variation is 5.1- 15.8% Inter-assay variation is 8.3 – 18.7%
<b>Reference Range:</b>	Unknown