

Product datasheet for TP723131

GDF15 (NM_004864) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human growth differentiation factor 15 (GDF15).
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	ARNGDHCPLG PGRCCRLHTV RASLEDLGWA DWVLSPREVQ VTMCIGACPS QFRAANMHAQ IKTSLHRLKP DTVAPCCVP ASYNPMVLIQ KTDTGVSLQT YDDLAKDCH CI
Tag:	Tag Free
Predicted MW:	12 kDa
Concentration:	lot specific
Purity:	≥ 95% by SDS-PAGE gel and HPLC analyses
Buffer:	Lyophilized from a 0.2 μM filtered solution of 10mM Sodium Citrate, pH3.0
Bioactivity:	Determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3/E1 osteoblastcells. The expected ED50 for this effect is 75-200 ng/ml.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_004855
Locus ID:	9518
UniProt ID:	Q99988
RefSeq Size:	1220
Cytogenetics:	19p13.11
RefSeq ORF:	924
Synonyms:	GDF-15; MIC-1; MIC1; NAG-1; PDF; PLAB; PTGFB



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Summary:

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. The protein is expressed in a broad range of cell types, acts as a pleiotropic cytokine and is involved in the stress response program of cells after cellular injury. Increased protein levels are associated with disease states such as tissue hypoxia, inflammation, acute injury and oxidative stress. [provided by RefSeq, Aug 2016]

Protein Families:

Druggable Genome, Secreted Protein

Product images: