

Product datasheet for **TP723039**

GDF6 (NM_001001557) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human growth differentiation factor 6 (GDF6).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	TAFASRHGKR HGKKSRLRCS KKPLHVNFK E LGWDDWIIAP LEYEAYHCEG VCDFPLRSHL EPTNHAIQT LMNSMDPGST PPSCCVPTKL TPISILYIDA GNNVYKQYE DMVVE SCGCR
Tag:	Tag Free
Predicted MW:	27 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	ED50 was determined by its ability to induce alkaline phosphatase production by ATDC-5 chondrogenic cells in the range of 2.0-3.0 ug/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_001001557
Locus ID:	392255
UniProt ID:	Q6KF10 , A0A0S2A5D6
RefSeq Size:	3716
Cytogenetics:	8q22.1
RefSeq ORF:	1365
Synonyms:	BMP-13; BMP13; CDMP2; KFM; KFS; KFS1; KFSL; SGM1; SYNS4



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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. This protein is required for normal formation of some bones and joints in the limbs, skull, and axial skeleton. Mutations in this gene are associated with Klippel-Feil syndrome, microphthalmia, and Leber congenital amaurosis. [provided by RefSeq, Sep 2016]

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

TGF-beta signaling pathway

Product images: