

Product datasheet for **TP723135**

Gdf5 (NM_008109) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse growth differentiation factor 5 (Gdf5).
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	APLANRQGKR PSKNLKARCS RKALHVNFKD MGWDDWIIAP LEYEAFHCEG LCEFPLRSHL EPTNHAVIQ T LMNSMDPEST PPTCCVPTRL SPISILFIDS ANNVVYKQYE 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:	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED ₅₀ for this effect is 1.0-2.0 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_032135
Locus ID:	14563
UniProt ID:	P43027 , Q8BRW9
RefSeq Size:	2317
Cytogenetics:	2 77.26 cM
RefSeq ORF:	1488
Synonyms:	b; BMP-14; bp; brp; CDMP-; CdmP-1



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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 regulates the development of numerous tissue and cell types, including cartilage, joints, brown fat, teeth, and the growth of neuronal axons and dendrites. Mice with a mutation in this gene exhibit enhanced tooth enamel formation. [provided by RefSeq, Aug 2016]

Product images: