

BMP-9/GDF-2, human recombinant

CATALOG #:	7154-10	10 µg
	7154-50	50 µg
ALTERNATE NAMES:	Growth/Differentiation Factor-2, BMP-9	
SOURCE:	CHO cells	
PURITY:	≥ 95% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	24.1 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

GDF-2 belongs to the TGF-β cytokine family whose members play an important role during prenatal development and postnatal growth, remodeling and maintenance of a variety of tissues and organs. GDF-2 is expressed mainly in non-parenchymal cells of the liver, but is also found in other various cells and tissues. GDF-2 can signal through the ALK1 receptor and has been implicated in a number of physiologic events. These include regulation of the hepatic reticulo-endothelial system, glucose homeostasis, and iron homeostasis, as well as the inhibition of angiogenesis. Recombinant human GDF-2 is a 24.1 kDa disulfide linked homodimeric protein consisting of two 110 amino acid polypeptide chains.

BIOLOGICAL ACTIVITY:

Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED₅₀ for this effect is 0.5-1.9 ng/ml.

AMINO ACID SEQUENCE:

SAGAGSHCQK TSLRVNFEDI GWDSWIIAPKE YEAYECKGGC FFPLADDVTPTK
HAIVQTLVHL KFPTKVGKAC CVPTKLSPIS VLYKDDMGVP TLKYHYEGMS VAECGCR

RELATED PRODUCTS:

- GDF-11, human recombinant (**Cat. No. 7155-10, -50**)
- GDF-15-D, human recombinant (**Cat. No. 4570-20, -100, -1000**)
- GDF-15, human recombinant (**Cat. No. 4569-20, -100, -1000**)
- GDF-3, human recombinant (**Cat. No. 4757-20, -100, -1000**)
- GDF-5, human recombinant (**Cat. No. 4667-20, -100, -1000**)
- GDF-9, human recombinant (**Cat. No. 4872-20, -100, -1000**)

FOR RESEARCH USE ONLY! Not to be used in humans.