

## GDF-2 Human Chinese Hamster Ovary Cells (CHO)

### Product Data Sheet

<b>Type:</b> Recombinant	<b>Cat. No.:</b>	
<b>Source:</b> Chinese Hamster Ovary Cells (CHO)	RBG10159002	(2 µg)
<b>Species:</b> Human	RBG10159010	(10 µg)
<b>Other names:</b> Growth/Differentiation Factor-2, BMP-9	RBG10159100	(100 µg)

### Description

GDF-2 belongs to the TGF-beta cytokine family, whose members play an important role during prenatal development and postnatal growth, and the 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 including the regulation of the hepatic reticuloendothelial system, glucose homeostasis, iron homeostasis, and 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.

### Research topic

Cardiovascular disease, Coronary artery disease

### Amino Acid Sequence

SAGAGSHCQK TSLRVNFEDI GWDSWIIAPK EYEAYECKGG CFFPLADDVT PTKHAIVQTL VHLKFPTKVG KACCVPTKLS  
PISVLYKDDM GVPTLKYHYE GMSVAECGCR

### Source

Chinese Hamster Ovary Cells (CHO)

### Purity

95%

### Biological Activity

Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED<sub>50</sub> for this effect is 0.5-1.9 ng/ml.

### Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. 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

### Storage, Stability/Shelf Life

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