

GDF-7 Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10162002	(2 µg)
Species: Human	RBG10162010	(10 µg)
Other names: Growth/Differentiation Factor-7, BMP-12	RBG10162100	(100 µg)

Description

GDF-7 belongs to the TGF-beta superfamily of growth and differentiation factors. It is expressed selectively by roof plate cells that are located in the developing embryonic central nervous system, and has been shown to influence the neuronal identity of cells within the central nervous system. GDF-7 has also been implicated in the formation, maintenance, and repair of certain cartilage and ligament tissues. Recombinant Human GDF-7 is a 28.0 kDa disulfide-linked homodimer containing two 129 amino acid residues.

Research topic

Bone and cartilage metabolism

Amino Acid Sequence

TALAGTRTAQ GSGGGAGRGH GRRGRSRCSR KPLHVDFKEL GWDDWIIAPL DYEAYHCEGL CDFPLRSHLE PTNHAIQTL
LNSMAPDAAP ASCCVPARLS PISILYIDAA NNVVYKQYED MVVEACGCR

Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells.

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

-20°C

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