

21-6008: IGF B1 Human

Description

SOURCE: *Escherichia Coli*.

PHYSICAL APPEARANCE: Solution.

Insulin-like growth factor (IGF) system plays a significant role in many cellular processes, including proliferation, and survival. IGFBP1 may be involved in reproductive function, including endometrial cycling, oocyte maturation, and fetal growth. IGFBP1 potentiates IGF effects in certain cell systems, possibly as a result of the binding of IGFBP1 to cell membranes through its Arg-Gly-Asp sequence.

Insulin like Growth Factor of Human Recombinant short chain produced in *E. coli* is a non-glycosylated, polypeptide chain containing 92 amino acids fragment (161-253) and having a total Mw of 11.81 kDa, with C-terminal hexahistidine tag. IGF is purified by proprietary chromatographic techniques.

Product Info

Amount :	50 ug / 100 µg
Purification :	Greater than 98.0% as determined by SDS-PAGE.
Content :	Insulin Like Growth Factor binding proteins 1 is supplied as solution in 50 mM Tris, pH-7.5, 300 mM NaCl and 20% Sucrose.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

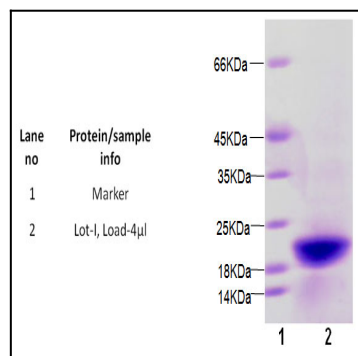


Figure 1. Recombinant human IGFB1 was analyzed on SDS-PAGE and the purity was determined as about 99%. 2 µg of purified recombinant IGFB1 was loaded onto 20% reducing gradient SDS-PAGE gel and was subjected to Coomassie blue staining.

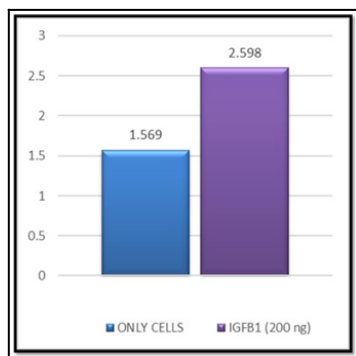


Figure 2. MCF-7 cells were incubated with 200 ng of recombinant human IGFB1 per well for 24 hours and were subjected to WST assay to determine the cell proliferation. IGFB1 showed significant cell proliferation compared to the control.