


CA1079	HumanKine™ Pro IGF-II			
	Prod. No. S2337-10UG	lot #: PR1XXXXXX XXXX	Orders & Support	866 372-7442 support@primorigen.com
	<i>For Research Use Only</i>		Web	www.primorigen.com
	<i>Not intended for use in humans or animals</i>			

Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	25 kDa monomer, glycosylated
Activity	Typically 2 to 8 ng/mL ED50
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

Background:

Recombinant human pro-IGF-II expressed in engineered human cells. Pro-IGF-II belongs to the Insulin-like Growth Factor protein family. Pro-IGF-II is a 25 kDa monomeric glycoprotein. In vitro studies show that IGF acts as a potent mitogen for cultured cells and as a physiological amplifier of glucose-mediated insulin secretion. IGF displays osteogenic properties by increasing osteoblast mitogenic activity through phosphoactivation of MAPK1 and MAPK3.

Note: Representative data are shown below (not Lot-specific).

Formulation:

Lyophilized in 50mM Sodium Acetate pH 4.5, 350mM NaCl.

Reconstitution:

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Storage and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

Quality Control Testing

Assay:

The specific activity was determined by dose-dependent stimulation of the proliferation of MCF-7 cells (human breast cancer cell line).

Purity Confirmation:

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

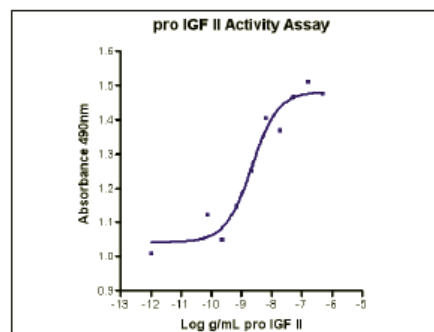
References:

Karey, K. P., et al (1988) Cancer Research 48, 4083-4092

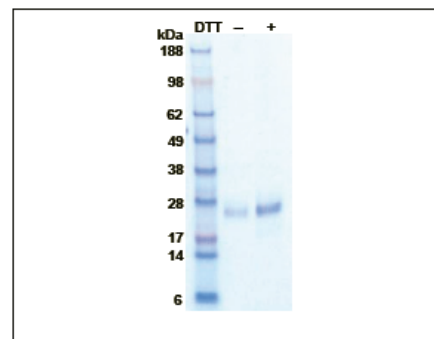
Hudgins, W. R., et al (1992) JBC 267, 8153-8160

**All HumanKine™ cytokines are expressed in HEK 293 cells.
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A. Activity Assay



B. SDS-PAGE



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