HumanKine™ pro Insulin-like Growth Factor-II, human recombinant, expressed in HEK 293 cells

Catalog Number H8166
Storage Temperature –20 °C

Synonym: IGF-2 PRO

Product Description
HumanKine™ recombinant human IGF-2 PRO, expressed in human 293 cells is a glycosylated monomer with a molecular mass of 25 kDa. Production in human 293 cells offers authentic glycosylation. Glycosylation contributes to stability in cell growth media and other applications.

Pro-IGF-II belongs to the Insulin-like Growth Factor protein family. In vitro studies show 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.

This product is lyophilized from a solution of 50 mM sodium acetate, pH 4.5, with 350 mM NaCl.

ED50: ≤16 ng/mL

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

Purity: ≥95% (SDS-PAGE)

Endotoxin level: ≤1 EU/µg

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions
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/Stability
Store the product at –20 °C. The lyophilized product remains active for one year at –20 °C.

Upon reconstitution, the cytokine can be stored at 2–8 °C for short term only, or at –20 °C to –80 °C in aliquots for long term. Avoid repeated freeze-thaw cycles.

References

HumanKine is a trademark of HumanZyme Inc.