rHu IGF-2
recombinant Human Insulin-like Growth Factor-2, IGF-II
Product code A8247

Description:
IGF is a well-characterized basic peptide believed to be secreted by the liver and to circulate in the blood. It has growth-regulating, insulin-like, and mitogenic activities. This growth factor has a major, but not absolute, dependence on Somatotropin. It is believed to be mainly active in adults in contrast to Insulin-like Growth Factor-2, which is a major fetal growth factor. Recombinant Human IGF-2 produced in \textit{E. coli} is a single, non-glycosylated, polypeptide chain containing 67 amino acids and having a molecular mass of 7505 Dalton.

Physical Appearance: sterile filtered white lyophilized (freeze-dried) powder.

Source: \textit{E. coli}

Formulation: Lyophilized with no additives.

Reconstitution: It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Stability: Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended to add a carrier protein (0.1 % HSA or BSA) for long term storage.

Purity: > 97% as determined by RP-HPLC, reducing and non-reducing SDS-PAGE.

Protein Content: determined by UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.

Biological Activity: Recombinant Human Insulin-Like Growth Factor-2 is fully biologically active when compared to standards. The $ED_{50}$, calculated by the competitive binding of IGF-2 plasma derived to human placent membrane is less than 1.0 ng/ml, corresponding to a specific activity of $10^6$ IU/mg.

Amino Acid Sequence:
AYRPSETLCG GELVDLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLETYC ATPAKSE

References


