Recombinant Human IGF-II/IGF2 Protein

Catalog Number: PKSH032596

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

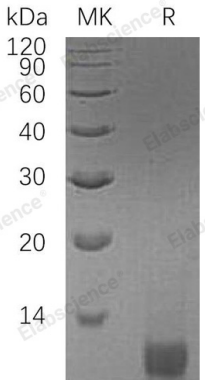
Description

Species	Human
Source	E.coli-derived Human IGF-II;IGF2 protein Ala25-Glu91, with an N-terminal His
Calculated MW	8.3 kDa
Observed MW	11 kDa
Accession	P01344
Bio-activity	Measure by its ability to induce MCF-7 cells proliferation. The ED_{50} for this effect is <3 ng/mL. The specific activity of recombinant human IGF-II is > 3x 10^5 IU/mg.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS,pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Insulin-Like Growth Factor II (IGF2) belongs to the insulin family of polypeptide growth factors that is involved in development and growth. Members of this family are structurally homologous to proinsulin, and share higher sequence identity. IGF2 is expressed only from the paternally inherited allele and believed to be secreted by the liver and to circulate in the blood. IGF2 possess growth-promoting activity and can stimulate the proliferation and survival of various cell types including muscle, bone, and cartilage tissue in vitro. IGF2 is influenced by placental lactogen and may play a role in fetal development.

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