IGF-II/IGF2, Human, Recombinant

Cat. No. : PCK155

General Information

Synonyms	Insulin-Like Growth Factor II;IGF-II;Somatomedin-A;IGF2;PP1446
Species	Human
Expression host	E.coli
Sequence	Ala25-Glu91
Accession	P01344
Mol mass	8.9 kDa
Expiration date	12 months

Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Glycine-HCl, 4% Sucrose, 4% Mannitol, 0.02% Tween 80 (w/v), pH 3.0.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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.