



# Recombinant Protein Technical Manual

## Recombinant Human IGF-II/IGF2 Protein (Active)

RPES1602

### Product Data:

**Product SKU:** RPES1602

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P01344

### Protein Information:

**Molecular Mass:** 8.9 kDa

**AP Molecular Mass:** 15 kDa

**Tag:**

**Bio-activity:** Measured in a serum-free cell proliferation assay using MCF-7 human breast cancer cells. The ED50 for this effect is 15.7 ng/ml.

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 5mM Hac, pH ~3.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Cell Culture

**Synonyms:** Insulin-Like Growth Factor II; IGF-II; Somatomedin-A; IGF2; PP1446

## Immunogen Information:

**Sequence:** Ala25-Glu91

## 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.