

IGF2/IGF-II Protein, Bovine, Recombinant (hFc)

General Information

Synonyms:	Insulin-like growth factor II (IGF-II);IGF2;IGF-2;Erythropoietin;Insulin-like growth factor 2
Protein Construction:	25-91 aa
Species:	Bovine
Expression Host:	P. pastoris (Yeast)
Accession:	P07456
Molecular Weight:	34.1 kDa (predicted)
AA Sequence:	AYRPSETLCGGELVDTLQFVCGDRGFYFSRPSSRINRRSRGIVEECCFRSCDLALLETYCATPAKSE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The insulin-like growth factors possess growth-promoting activity. Major fetal growth hormone in mammals. Plays a key role in regulating fetoplacental development. IGF2 is influenced by placental lactogen. Also involved in tissue differentiation. In adults, involved in glucose metabolism in adipose tissue, skeletal muscle and liver. Acts as a ligand for integrin which is required for IGF2 signaling. Positively regulates myogenic transcription factor MYOD1

A DRUG SCREENING EXPERT

function by facilitating the recruitment of transcriptional coactivators, thereby controlling muscle terminal differentiation. Inhibits myoblast differentiation and modulates metabolism via increasing the mitochondrial respiration rate.; Preptin undergoes glucose-mediated co-secretion with insulin, and acts as physiological amplifier of glucose-mediated insulin secretion. Exhibits osteogenic properties by increasing osteoblast mitogenic activity through phosphoactivation of MAPK1 and MAPK3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481