



LR3-IGF-1

E21-032

Catalog Number:E21-032

Amount:10ug

Altername:Insulin-Like Growth Factor I; IGF-I; Mechano Growth Factor; MGF; Somatomedin-C; IGF1; IBP1

Storage/Stability:Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.Reconstituted protein solution can be stored at 4-7°C for 2-7 days.Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Background:Insulin-like growth factor I (IGF1) belongs to the family of insulin-like growth factors that are structurally homologous to proinsulin. Mature IGFs are generated by proteolytic processing of inactive precursor proteins, which contains the N- and C-terminal propeptide regions. Mature human IGF-I consisting of 70 amino acids has 94% identity with mouse IGF-I and exhibits cross-species activity. IGF-1 binds IGF-IR, IGF-IIR, and the insulin receptor and plays a key role in cell cycle progression, cell proliferation and tumor progression. IGF-1 expression is regulated by growth hormone. R3 IGF-1 is an 83 amino acid analog of IGF-1 comprising the complete human IGF-1 sequence with the substitution of an Arg (R) for the Glu(E) at position three, hence R3, and a 13 amino acid extension peptide at the N terminus. R3 IGF-1 has been produced with the purpose of increasing biological activity. R3 IGF-1 is significantly more potent than human IGF-I in vitro.

Species:Human

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 ddH2O.Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin:Less than 0.05 ng/µg (0.5 IEU/µg) as determined by LAL test.

Purity:Greater than 95% as determined by reducing SDS-PAGE.

Description:Recombinant Human Insulin-like Growth Factor I is produced by our E.coli expression system and the target gene encoding Gly49-Ala118 is expressed.

Product State:Lyophilized

Ship Description:The product is shipped at ambient temperature.

Formulation:Lyophilized from a 0.2 µm filtered solution of 300mM NaAc, pH 6.5.

Expression system:E.coli

For Research Use Only

