

### IGF-I/IGF1/MGF, Human, Recombinant

货号: PCK017

## 产品信息

别名 Insulin-Like Growth Factor I; IGF-I; Mechano Growth Factor; MGF; Somatomedin-100ه... مراک

C; IGF1; IBP1

物种 Human

表达宿主 E.coli

序列信息 Gly49-Ala118

检索号 P05019

分子量 7.6 kDa

## 产品特性

纯度 >95% as determined by reducing SDS-PAGE.

<1.0 EU per µg as determined by LAL test. 内毒素

保存 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.

运输 Ambient temperature or ice pack.

制剂 Lyophilized from a 0.2 µm filtered solution of 20mM NaAc-HAc, pH 4.5

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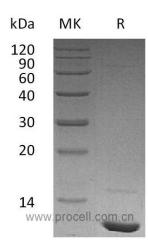
#### 复融

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 50mM Acetic Acid. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

# 背景介绍

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.

### SDS-PAGE



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