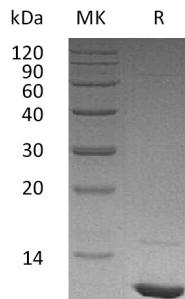


概述 (Summary)

| | |
|-----------------------------|---|
| 英文全称 | IGF-I |
| 纯度 (Purity) | Greater than 95% as determined by reducing SDS-PAGE |
| 内毒素 (Endotoxin level) | <0.5 EU/μg as determined by LAL test. |
| 蛋白构建 (Construction) | Recombinant Human Insulin-like Growth Factor I is produced by our E.coli expression system and the target gene encoding Gly49-Ala118 is expressed. |
| Accession # | P05019 |
| 蛋白标签 (Tag) | |
| 表达宿主 (Host) | E.coli |
| 种属 (Species) | Human |
| 预测分子量 (Predicted MW) | 7.6 KDa |
| 蛋白形态 (Form) | Lyophilized from a 0.2 μm filtered solution of 20mM NaAc-HAc, pH 4.5 |
| 储存缓冲液 (Buffer) | |
| 运输方式 (Shipping) | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. |
| 稳定性&储存 (Stability &Storage) | Lyophilized protein should be stored at ≤ -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 ≤ -20°C for 3 months. |
| 复溶 (Reconstitution) | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in 50mM Acetic Acid. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in 50mM Acetic Acid. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

电泳图 (SDS-PAGE image)



背景 (Background)

分子别名 (Alternative Names)

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

背景介绍 (References)

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.

注意事项 (Note)

For Research Use Only, Not for Diagnostic Use.