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Datasheet for ABIN2017981 IGF1 Protein (AA 49-118)

Images 2



Overview

| Quantity: | 50 µg |
|--------------------------|--|
| Target: | IGF1 |
| Protein Characteristics: | AA 49-118 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Product Details | |
| Characteristics: | ED50 < 5 ng/mL, measured by a cell proliferation assay using FDC-P1 cells, corresponding to a specific activity of > 2.0x 10^5 units/mg. |
| Purity: | > 95 % by SDS-PAGE and HPLC analyses. |
| Endotoxin Level: | < 0.2 EU/µg, determined by LAL method. |
| Target Details | |

rarget Details

| Target: | IGF1 |
|-------------------|--|
| Alternative Name: | Insulin-Like Growth Factor I (IGF-I) (IGF1 Products) |
| Background: | Insulin-like growth factor I (IGF-I) also known as Somatamedin C is a hormone similar in molecular structure to insulin. Human IGF-I has two isoforms (IGF-IA and IGF-IB) which is |
| | differentially expressed by various tissues. Mature human IGF-I respectively shares 94 % and |
| | 96 % aa sequence identity with mouse and rat IGF-I. Both IGF-I and IGF-II (another ligand of IGF) |

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| | can signal through the IGF-I receptor (IGFIR), but IGF-II can alone bind the IGF-II receptor |
|---------------------|---|
| | (IGFIIR/ Mannose-6-phosphate receptor). IGF-I plays an important role in childhood growth and |
| | continues to have anabolic effects in adults. |
| | Synonyms: IGF-IA, Somatamedin C |
| Molecular Weight: | 7.7 kDa, observed by reducing SDS-PAGE. |
| UniProt: | P05019 |
| Pathways: | RTK Signaling, Intracellular Steroid Hormone Receptor Signaling Pathway, Peptide Hormone |
| | Metabolism, Hormone Activity, Regulation of Intracellular Steroid Hormone Receptor Signaling, |
| | Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Stem |
| | Cell Maintenance, Glycosaminoglycan Metabolic Process, Regulation of Carbohydrate |
| | Metabolic Process, Autophagy, Smooth Muscle Cell Migration, Activated T Cell Proliferation, |
| | Positive Regulation of fat Cell Differentiation |
| Application Details | |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Lyophilized |
| Reconstitution: | Reconstituted in ddH2O at 100 µg/mL. |
| Buffer: | Lyophilized after extensive dialysis against PBS. |
| Storage: | -80 °C |
| Storage Comment: | Lyophilized recombinant human Insulin-like growth factor I (rhIGF-I) remains stable up to 6 |
| | months at -80 °C from date of receipt. Upon reconstitution, rhIGF-I should be stable up to 2 |
| | weeks at 4 °C or up to 3 months at -20 °C. |
| Expiry Date: | 6 months |



Activity Assay

Image 1. IGF-I, Human stimulates cell proliferation of the FDC-P1 Cells. The ED50 for this effect is less than 5ng/mL(1.33 ng/mL).

SDS-PAGE

Image 2. 2 µg of IGF-I, Human was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.

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