

Recombinant Bovine Igf1 Protein, Gly50-Ala119

Cat. No. Igf1-02B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine Igf1 Protein (Gly50-Ala119) without tag was expressed in E. coli.
Species	Bovine
Source	E.coli
ProteinLength	Gly50-Ala119
Description	Insulin-like growth factor 1 (IGF-1), also called Somatomedin, is a hormone similar in molecular structure to insulin but has a much higher growth-promoting activity. IGF-1 consists of 70 amino acids in a single chain with three intramolecular disulfide bridges. IGF-1 may be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. It is able to stimulate glucose transport in bone-derived osteoblastic (PyMS) cells and is effective at much lower concentrations than insulin, not only regarding glycogen and DNA synthesis but also with regard to enhancing glucose uptake. It may also play a role in synapse maturation.
Bio-activity	ED50 < 15.0 ng/ml, measured by a cell proliferation assay using FDC-P1 cells, corresponding to a specific activity of > 6.7 × 10 ⁴ units/mg.
Molecular Mass	~ 7.7 kDa, on SDS-PAGE under reducing conditions.
Endotoxin	< 0.2 EU/μg of protein by gel clotting method

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Purity	> 95% as analyzed by SDS-PAGE
N-terminal Sequence Analysis	Met
Storage	Upon receiving, this product remains stable for up to 6 months at lower than -70 centigrade. Upon reconstitution, the product should be stable for up to 1 week at 4 centigrade or up to 3 months at -20 centigrade. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O up to 100 µg/ml.

GENE INFORMATION

Gene Name	IGF1 insulin like growth factor 1 [Bos taurus (cattle)]
Official Symbol	IGF1
Synonyms	IGF1; insulin like growth factor 1; IGF-1; IGF-I; insulin-like growth factor I; class 1 insulin-like growth factor I preproprotein; insulin growth factor-1; insulin-like growth factor 1 (somatomedin C); insulin-like growth factor I (somatomedin C); prepro-IGF-I; somatomedin
Gene ID	281239
mRNA Refseq	NM_001077828

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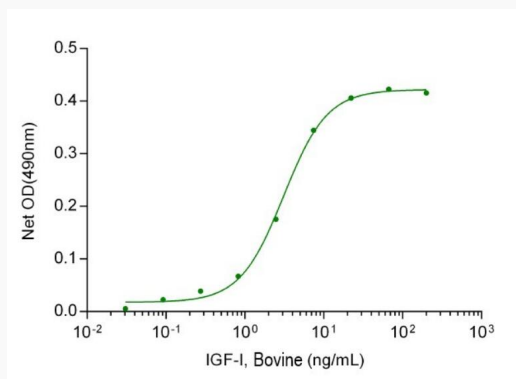
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Protein Refseq NP_001071296

UniProt ID P07455

Activity



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