

Rev04
 Update: Aug,20,2025

DATASHEET

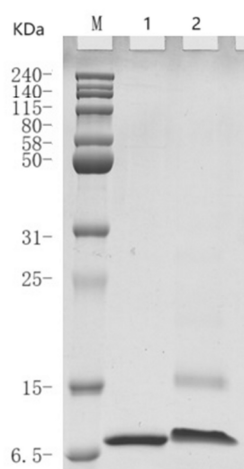
IGF-I, Porcine

Cat. No.: Z03790

Product Introduction

Species	Porcine
Protein Construction	IGF-I (Gly49-Ala118) Accession # P16545
Purity	≥ 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 10.0 ng/ml, measured by a cell proliferation assay using MCF-7 cells.
Expression System	<i>E.coli</i>
Theoretical Molecular Weight	7.7 kDa
Apparent Molecular Weight	~ 7.7 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS, pH7.4
Reconstitution	Before opening, centrifuge the vial briefly to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O up to 100 μg/ml
Storage & Stability	Upon receiving, this product remains stable for 6 months at -20°C or below. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Examples

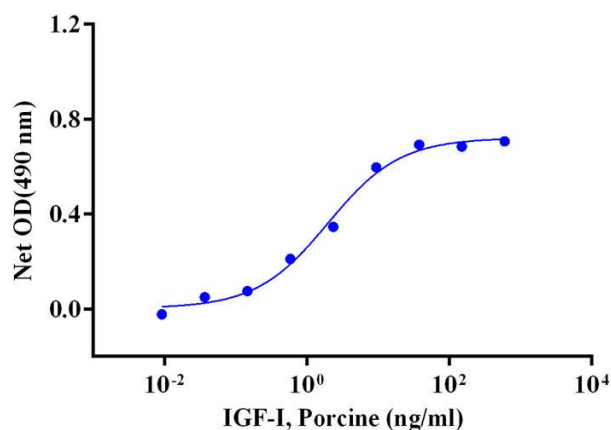


Lane 1: 2 μg of IGF-I, Porcine reducing (R)

Lane 2: 2 μg of IGF-I, Porcine reducing (N)

The purity is greater than 95% as analyzed by SDS-PAGE(R)

The ED₅₀ as determined by a cell proliferation assay using MCF-7 cells is 1.976 ng/ml



Background

Target Background : Insulin-like growth factor 1 (IGF-1) 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.

Synonyms : IGF1; Insulin-like growth factor I; IGF-1

For research use only. Not intended for human and animal therapeutic or diagnostic use.

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China