



Recombinant Barramundi Insulin-like Growth Factor-I (IGF-I) (DAG-WT597)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Recombinant barramundi (*Lates calcarifer*) insulin-like growth factor-I (rbIGF-I) is a 66 amino acid polypeptide. Barramundi IGF-I is synthesized in *E. coli* using a patented expression system and the barramundi IGF-I is correctly folded and then purified by several liquid chromatography purification steps to yield receptor grade barramundi IGF-I.

Species

Barramundi

Purity

> 95 % as determined by HPLC

Conjugate

Unconjugated

Applications

N/A

Molecular Weight

7,309 Da

Reconstitution

Dissolve in dilute acid (e.g. 10mM HCl or 0.1M acetic acid)

Stability

2 years

Bio-activity

Stimulation of protein synthesis in L6 myoblasts - ED50:24.0 ng/ml

Endotoxin

≤0.1 EU/μg

Format

Lyophilized Powder

Size

100 μg

Buffer

0.1 M acetic acid

Preservative

None

Storage

Store at 4°C

BACKGROUND

Introduction

Insulin-like growth factor 1 (IGF-1), also called somatomedin C, is a hormone similar in molecular structure to insulin which plays an important role in childhood growth, and has anabolic effects in adults. IGF-1 is a protein that in humans is encoded by the IGF1 gene. IGF-1 consists of 70 amino acids in a single chain with three intramolecular disulfide bridges. IGF-1 has a molecular weight of 7,649 Daltons.

Keywords

Insulin-like growth factor 1; IGF1; Hormone
