

Product datasheet

Recombinant human IGF1 protein ab119455

概述

产品名称	重组人IGF1蛋白
蛋白长度	Full length protein

描述

性质	Recombinant
来源	Escherichia coli

氨基酸序列

Accession [P05019](#)

种属 Human

序列 The sequence of the first 5 N-terminal amino acids was found to be GPETL. N-terminal methionine has been completely removed enzymatically.

分子量 8 kDa

氨基酸 49 to 118

技术指标

Our [Abpromise guarantee](#) covers the use of **ab119455** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

生物活性 =>1x10⁶ U/mg The ED₅₀ as determined by the dose-dependent stimulation of thymidine uptake by BALB/c 3T3 cells is <= 1.0 ng/ml.

应用 Functional Studies
SDS-PAGE

纯度 > 98 % SDS-PAGE.
Purity by SDS PAGE is >98%.

形式 Liquid

补充说明 Endotoxin Level <0.1 ng/μg of IGF1. For long term storage, the addition of a carrier protein is recommended. Storage in frost-free freezers is not recommended. This product should be stored undiluted.

制备和贮存

稳定性和存储

Shipped at 4°C. Store at -80°C.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

常规信息

功能

The insulin-like growth factors, isolated from plasma, are structurally and functionally related to insulin but have a much higher growth-promoting activity. May be a physiological regulator of [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblasts. Stimulates glucose transport in rat 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.

疾病相关

Defects in IGF1 are the cause of insulin-like growth factor I deficiency (IGF1 deficiency) [MIM:608747]. IGF1 deficiency is an autosomal recessive disorder characterized by growth retardation, sensorineural deafness and mental retardation.

序列相似性

Belongs to the insulin family.

细胞定位

Secreted.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors