abcam

Product datasheet

Recombinant human Growth Hormone protein ab116162

1 References 2 图像

描述

产品名称	重组人Growth Hormone蛋白
生物活性	The activity is determined by the ability to induce proliferation of Nb211 rat lymphoma cells for this effect and is typically 25-100 pg/mL.
纯度	> 95 % SDS-PAGE. Protein Content and Purity determined by: UV spectroscopy at 280 nm; RP-HPLC calibrated against a known standard; Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.
内毒素水平	< 0.100 Eu/µg
表达系统	Escherichia coli
Accession	P01241
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
序列	MFPTIPLSRL FDNAMLRAHR LHQLAFDTYQ EFEEAYIPKE QKYSFLQNPQ TSLCFSESIP TPSNREETQQ KSNLELLRIS LLLIQSWLEP VQFLRSVFAN SLVYGASDSN VYDLLKDLEE GIQTLMGRLE DGSPRTGQIF KQTYSKFDTN SHNDDALLKN YGLLYCFRKD MDKVETFLRI VQCRSVEGSC GF
预测分子量	22 kDa
氨基酸	27 to 217

技术指标

Our **Abpromise guarantee** covers the use of **ab116162** in the following tested applications.

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

应用	SDS-PAGE HPLC Functional Studies

形式	Lyophilized

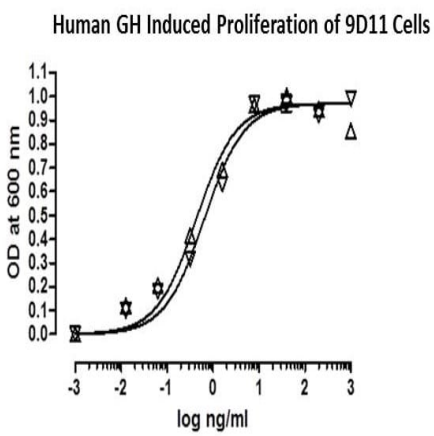
制备和贮存

稳定性和存储	Shipped at 4°C. Store at -80°C. Avoid freeze / thaw cycle. For long term storage it is recommended to add a carrier protein on reconstitution (0.1% HSA or BSA). Constituent: 0.17% Sodium carbonate This product is an active protein and may elicit a biological response in vivo, handle with caution.
复溶	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

常规信息

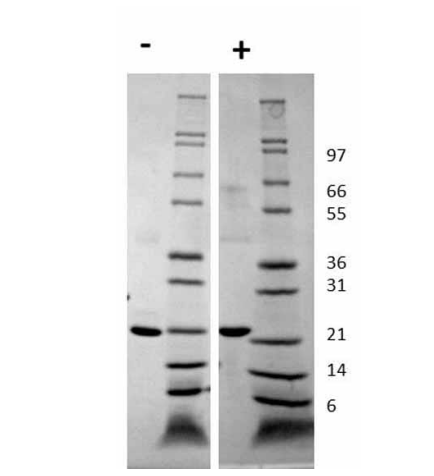
功能	Plays an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.
疾病相关	Defects in GH1 are a cause of growth hormone deficiency isolated type 1A (IGHD1A) [MIM:262400]; also known as pituitary dwarfism I. IGHD1A is an autosomal recessive deficiency of GH which causes short stature. IGHD1A patients have an absence of GH with severe dwarfism and often develop anti-GH antibodies when given exogenous GH. Defects in GH1 are a cause of growth hormone deficiency isolated type 1B (IGHD1B) [MIM:612781]; also known as dwarfism of Sindh. IGHD1B is an autosomal recessive deficiency of GH which causes short stature. IGHD1B patients have low but detectable levels of GH. Dwarfism is less severe than in IGHD1A and patients usually respond well to exogenous GH. Defects in GH1 are the cause of Kowarski syndrome (KWKS) [MIM:262650]; also known as pituitary dwarfism VI. Defects in GH1 are a cause of growth hormone deficiency isolated type 2 (IGHD2) [MIM:173100]. IGHD2 is an autosomal dominant deficiency of GH which causes short stature. Clinical severity is variable. Patients have a positive response and immunologic tolerance to growth hormone therapy.
序列相似性	Belongs to the somatotropin/prolactin family.
细胞定位	Secreted.

图片



Functional Studies - Recombinant human Growth Hormone protein (ab116162)

Functional study of ab116162.



Western blot - Recombinant human Growth Hormone protein (ab116162)

ab116162 used in Western Blot. Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel stained with Coomassie Blue. Human GH is predicted have a MW of 22.2 kDa.

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