

GH1 Antibody

*Growth Hormone-1, Mouse Anti Human
ABM0275*

Product Overview

Name GH1 Antibody

Description

Growth Hormone-1, Mouse Anti Human

Introduction

GHBP is a transmembrane receptor for GH. Binding of GH to the receptor leads to receptor dimerization and the activation of an intra- and intercellular signal transduction pathway leading to growth. A common alternate allele of this gene, called GHRd3, lacks exon three and has been well-characterized. Mutations in this gene have been associated with Laron syndrome, also known as the GH insensitivity syndrome (GHIS), a disorder characterized by short stature. Other splice variants, including one encoding a soluble form of the protein (GHRtr), have been observed but have not been thoroughly characterized.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

GHBP was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO₃.

Stability

Lyophilized GHBP although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GHBP should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

AFSGSEATAAILS RAPWSLQSVN PGLK TNS SKEPKFTKCRSPERETF SCHWTDEVH HGTK
NLGPIQLFYTRRNTQEWTQEWKECPDYVSA GENSCYFNSSFTSIWIPYCIKLT SNGGTVD
EKCFVDEIVQPDPPIALNW TLLNVSLTGI HADIQVRWEAPRNADIQKGW MVLEYELQYK
EVNETKWKMMDPILTTSVPVYSLKVDKEYE VRVRSKQRNSGNYGEFSEVLYVTLPQMSQF TCEEDFYF.

Biological Activity

GHBP is fully biologically active as evidenced by its ability of forming 2:1 complex with G.H.

Solubility

It is recommended to reconstitute the lyophilized GHBP in sterile 18M²-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 2.6 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of GHBP as a Reference Standard.

Precautions

GH1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.