

Activin-A Human Plant-Active

Activin-A Human Recombinant, Plant-Active
GRF0006

Product Overview

Name Activin-A Human Plant-Active

Description

Activin-A Human Recombinant, Plant-Active

Accession (Primary) [P08476](#)

Synonyms

Inhba, Inhibin beta A, FSH releasing protein.

Introduction

Activins are homodimers or heterodimers of the different α subunit isoforms, part of the TGF β family. Mature Activin A has two 116 amino acids residues β A subunits (β A- β A). Activin displays an extensive variety of biological activities, including mesoderm induction, neural cell differentiation, bone remodelling, haematopoiesis, and reproductive physiology. Activins takes part in the production and regulation of hormones such as FSH, LH, GnRH and ACTH. Cells that are identified to express Activin A include fibroblasts, endothelial cells, hepatocytes, vascular smooth muscle cells, macrophages, keratinocytes, osteoclasts, bone marrow monocytes, prostatic epithelium, neurons, chondrocytes, osteoblasts, Leydig cells, Sertoli cells, and ovarian granulosa cells.

Source

E.Coli.

Physical Appearance

Lyophilized freeze dried powder.

Formulation

Mouse Activin-A lyophilized from a concentrated 1mg/ml protein solution containing 0.1% TFA.

Stability

Lyophilized Activin-A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Activin-A 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 95% as observed by SDS-PAGE.

Amino acid sequence

MGLECDGKVN ICCKKQFFVS FKGIGWNDWI IAPSGYHANY CEGECPSHIA GTSGSSLSFH STVINHYRMR

GHSPFANLKS CCVPTKLRPM SMLYYDDGQN IIKKDIQNMI VEECGCS.

Biological Activity

Biological activity is assessed by the ability to induce cytotoxicity of MPC-11 cells and was found to be 8.8ng/ml corresponding to a specific activity of 1.1×10^5 units/mg.

Solubility

Murine INHBA protein should be reconstituted in distilled pyrogen free water to a concentration of 100ug /ml which can then be further diluted to other aqueous solutions.

Precautions

Activin-A Human Plant-Active is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([P08476](#))