
Product Data Sheet

Product Name: Activin-A Human Plant-Active
 Cat. No.: GP20002
 Batch No.: 1

Product Data

Purity >98% Source Nicotiana benthamiana.

Physical Appearance solid Shipping Condition Shipped at Room temp.

Synonyms Inhba; Inhibin beta A; FSH releasing protein.

Amino Acid Sequence HHHHHHGLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSLSFHSTVINHYMRGHSPFANLKSCCVPTKLRPMSMLY

Solubility INHBA protein should be reconstituted in distilled water to a concentration of 50 ug /ml. Due to the protein nature, dimmers and m

Formulation Active form Activin-A was lyophilized from a concentrated 1mg/ml protein solution containing 50mM Tris-HCl pH-7.4

Introduction

Activins are homodimers or heterodimers of the different β 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.

Biological Activity

The biological activity of INHBA is measured by its ability to inhibit mouse plasmacytoma cell line (MPC-11) cells proliferation ([³H]thymidine incorporation). ED50<5ng/ml.

Stability

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Repeated freezing and thawing is not recommended.

Background

Active form Activin-A Human Recombinant produced in Plant is a homodimeric, glycosylated, polypeptide chain containing 2 x 116 amino acids and having a molecular weight of 27.4kDa. The Active form Activin-A is fused to a 6-His tag at N-terminus and purified by standard chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

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