9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

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 β subunit isoforms, part of the TGFβ family. Mature Activin A has two 116 amino acids residues βA subunits (βA-βA). 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	
Nicotiana benthamiana.	
Physical Appearance	
Lyophilized freeze dried powder.	
Formulation	
Active form Activin-A was lyophilized from a concentrated 1mg/ml protein solution containing 50mM Tris-HCl pH-7.4	
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.	
Purity	
Greater than 98% as obsereved by SDS-PAGE.	
Amino acid sequence	
HHHHHHGLECDGKVNICCKKQFFVSFKDIGWNDWIIAPSG	
YHANYCEGECPSHIAGTSGSSLSFHSTVINHYRMRGHSPFA	

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NLKSCCVPTKLRPMSMLYYDDGQNIIKKDIQNMIVEECGCS.

Biological Activity

The biological activity of INHBA is measured by its ability to inhibit mouse plasmacytoma cell line (MPC-11) cells proliferation ([3 H]thymidine incorporation). ED 50 < 5ng/ml.

Solubility

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

Precautions

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

Target Information: (P08476)