

## 32-1004: Activin A Plant Recombinant Protein

**Alternative Name :** Inhba, Inhibin beta A, FSH releasing protein.

### Description

Source : Nicotiana benthamiana plant Activin A human Recombinant produced in Nicotiana benthamiana plant is a disulfide-linked homodimers of two betaA chains, each containing 116 amino residues (molecular formula C<sub>600</sub>H<sub>911</sub>N<sub>173</sub>O<sub>174</sub>S<sub>13</sub>) and 6-His-tag at the N-terminal having the total molecular mass of 27.4kDa. Activins are homodimers or heterodimers of the different subunit isoforms, part of the TGF family. Mature Activin A has two 116 amino acids residues betaA subunits (bA-bA). 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.

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 97.0% as determined by Analysis by SDS-PAGE.
<b>Content :</b>	Lyophilized from 1mg/ml solution in Tris HCl 0.05M buffer at pH 7.4.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	HHHHHHGLEC DGKVNICKCK QFFVSFKDIG WNDWIIAPSG YHANYCEGEC PSHIAGTSGS SLSFHSTVIN HYMRGHSPF ANLKSCCVPT KLRPMSMLYY DDGQNIKKD IQNMIVEECG CS

### Application Note

It is recommended to reconstitute the lyophilized Activin A in sterile 18M<sup>Ω</sup>-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

