

## 32-1009: rActivin A Recombinant Protein

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

### Description

Source : E.Coli. Activins are homodimers or heterodimers of the different  $\alpha$  subunit isoforms, part of the TGF $\beta$  family. Mature Activin A has two 116 amino acids residues  $\alpha$ A subunits ( $\alpha$ A- $\alpha$ 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.

### Product Info

<b>Amount :</b>	10 $\mu$ g
<b>Purification :</b>	Greater than 95% as observed by SDS-PAGE.
<b>Content :</b>	Rat Activin-A was lyophilized from a concentrated 1mg/ml protein solution containing 0.02% TFA.
<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>	MGLECDGKVN ICCKKQFFVS FKDIGWNDWI IAPSGYHANY CEGECPSHIA GTSGSSLSFH STVINHYRMR GHSPFANLKS CCVPTKL RPM SMLYYDDGQN IIKKDIQNMI VEECGCS.

### Application Note

Rat 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. Biological activity is assessed by the ability to induce cytotoxicity of MPC-11 cells and was found to be 1-1.5 ng/ml corresponding to a specific activity of 666,667-1,000,000 Units/mg.

