

## 32-1005: Activin B Active Recombinant Protein

**Alternative Name :** Inhibin beta B (activin AB beta polypeptide),Inhibin,beta-2,Activin beta-B chain,MGC157939.

### Description

Source : Nicotiana benthamiana plant Activin B human Recombinant produced in Nicotiana benthamiana plant is a beta-B single chain (aa 293-406) containing 123 amino acids (molecular formula C<sub>615</sub>H<sub>910</sub>N<sub>178</sub>O<sub>177</sub>S<sub>12</sub>). Activin B is fused to a 10-His-tag at the N-terminal having the total molecular mass of 14kDa and purified by standard chromatographic techniques. Inhibins are dimeric peptide hormones produced by female ovarian granulosa cells and male Sertoli cells as well as a variety of other tissues. Inhibins have two isoforms, A and B, with the same alpha subunit but different beta subunits. Inhibin A is a dimer of alpha and beta A subunits, inhibin B is a dimer of alpha and beta B subunits. Inhibins are thought to inhibit the production of follicle-stimulating hormone (FSH) by the pituitary gland. In addition, Inhibins are also thought to play a role in the control of gametogenesis, and embryonic and fetal development.

### 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 0.05M Tris-HCl buffer pH 7.4.
<b>Storage condition :</b>	Lyophilized Activin B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Activin B 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>	HHHHHHHHHH GLECDGRTNL CCRQQFFIDF RLIGWNDWII APTGYGNYC EGSCPAYLAG VPGSASSFHT AVVNQYRMRG LNPGTVNSSC IPTKLSTMSM LYFDDEYNIV KRDVPMIVE ECG.

### Application Note

It is recommended to reconstitute the lyophilized Activin B in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The biological activity of Activin B is measured by its ability to inhibit mouse plasmacytoma cell line (MPC-11) cells proliferation. EC<sub>50</sub> <5ng/ml is required to stimulate a half-maximal response at cytokine saturation. Note: Since applications vary, each investigator should titrate the reagent to obtain optimal results.

