

## Recombinant Human Activin-B active (rh Activin-B)

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

**Introduction:** 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.

**Description:** Activin B human Recombinant produced in *Nicotiana benthamiana* plant is a beta-B single chain (aa 293-406) containing 123 amino acids (molecular formula  $C_{615}H_{910}N_{178}O_{177}S_{12}$ ). 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.

**Source:** *Nicotiana benthamiana*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation:** Lyophilized from 1mg/ml solution in 0.05M Tris-HCl buffer pH 7.4.

**Solubility:** 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.

**Stability:** 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.

**Purity:** Greater than 97.0% as determined by SDS-PAGE.

**Amino Acid Sequence:** HHHHHHHHHH GLECDGRTNL CCRQQFFIDF RLIWWDWII APTGYYGNYC  
EGSCPAYLAG VPGSASSFHT AVVNQYRMRG LNP GTVNSCC IPTKLSTMSM LYFDDEYNIV KRDPVNMIVE  
ECG

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11345252
<i>medium</i>	10 µg	Cat.N°	11345253

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