



## Activin-B, active, His Tag, tobacco, human recombinant

**Catalog No:** 97397  
**Lot No:** XXXXX  
**Source:** *Nicotiana benthamiana*  
**Synonyms:** Inhibin beta B (activin AB beta polypeptide), Inhibin, beta-2, Activin beta-B chain, MGC157939

### Background

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* is a single chain containing 123 amino acids. Activin B is fused to a 10-His Tag at the N-terminus having the total molecular mass of 14 kDa and purified by standard chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from 1 mg/ml solution in 0.05 M Tris HCl buffer at pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized Activin B in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/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 Analysis by SDS-PAGE.

### Amino Acid Sequence

HHHHHHHHHHH GLECDGRTNL CCRQQFFIDF RLIQWNDWII APTGYGNYC EGSCPAYLAG VPGSASSFHT AVVNQYRMRG  
LNPQTVNSCC IPTKLSTMSM LYFDDEYNIV KRDPVNMIVE ECG

### Usage

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