



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 H₂O 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 RLIGWNDWII APTGYGNYC EGSCPAYLAG VPGSASSFHT AVVNQYMRG
LNPQTVNSCC IPTKLSTMSM LYFDDEYNIV KRDPVNMIVE ECG

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51