

Datasheet

Activin B

Human Recombinant

Product	Description	Catalogue-No.	Size
Activin B	Activin B, human recombinant	CB-11305702	2 µg

Product description

Synonyms: Inhibin beta B, Inhibin beta-2

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. Activin B human recombinant produced in *Nicotiana benthamiana* is a beta-B single chain (aa 293-406) containing 123 amino acids. Activin B is fused to a 10 His-tag at the N-terminal having a total molecular mass of 14 kDa and purified by standard chromatographic techniques.

Solubility and storage conditions

It is recommended to reconstitute the lyophilized Activin B in sterile, distilled water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Lyophilized Activin B although stable at room temperature for 3 weeks, should be stored desiccated below -20° C. Upon reconstitution Activin B should be stored at 2-8° C for up to 7 days and for future use below -20° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Composition

Sterile filtered white lyophilized (freeze-dried) powder lyophilized from 1 mg/ml solution in 0.05 M Tris-HCl buffer pH 7.4.

Amino acid sequence: HHHHHHHHHH GLECDGRTNL CCRQQFFIDF RLIGWNDWII APTGYYGNYS
 EGSCPAYLAG VPGSASSFHT AVVNQYRMRG LNPGTVNSCC IPTKLSTMSM LYFDDEYNIV
 KRDPVNMIVE ECG

Purity: > 97.0% as determined by SDS-PAGE analysis.

Suitability

FOR RESEARCH USE ONLY!

Not approved for human or animal diagnostic or therapeutic procedures.

Technical Support

For technical support or questions or please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.