
Product Data Sheet

Product Name: Activin B Human Active

Cat. No.: GP20008

Batch No.: 1

Product Data

Purity	>98%	Source	Nicotiana benthamiana plant
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Inhibin beta B (activin AB beta polypeptide); Inhibin; beta-2; Activin beta-B chain; MGC157939.		
Amino Acid Sequence	HHHHHHHHHHH GLECDGRTNL CCRQQFFIDF RLIGWNDWII APTGYYGNYC EGSCPAYLAG VPGSASSFHT AVVNQYRMRG LNPGTVNSCC IPTKLSTMSM LYFDDEYNIV KRDVPMIVE ECG.		
Solubility	It is recommended to reconstitute the lyophilized Activin B in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from 1mg/ml solution in 0.05M Tris-HCl buffer pH 7.4.		

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.

Biological Activity

The biological activity of Activin B is measured by its ability to inhibit mouse plasmacytoma cell line (MPC-11) cells proliferation. EC₅₀ <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.

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

Activin B human Recombinant produced in *Nicotiana benthamiana* plant is a beta-B single chain (aa 293-406) containing 123 amino acids (molecular formula C₆₁₅H₉₁₀N₁₇₈O₁₇₇S₁₂). 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.

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