

Active Recombinant Human Activin B, His-tagged

Cat. No. Activin B-16H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	recombinant Human Activin B was produced by transient expression in Nicotiana plant.
Species	Human
Source	Nicotiana
Description	Activin B is a non-glycosylated cytokine that belongs to the TGF β superfamily. It is involved in a wide variety of biological processes including hematopoiesis, immune response, neural cell differentiation, wound repair and morphogenesis. The Activins form homodimers (e.g. AA; BB) and heterodimers (e.g. AB) and can activate the Smad pathway by signaling through heterodimeric typeI/typeII serine/threonine kinase transmembrane receptors. Activins are also important for production and regulation of several hormones such as FSH, Prolactin, ACTH and oxytocin. Activin B is synthesized by a wide spectrum of cells including bone marrow cells, skin cells, vascular smooth muscle cells and cells of the reproductive system.
Form	Lyophilized from Tris HCl at pH 7.4
Bio-activity	Bioactivity is assayed by measuring the ability of recombinant human Activin B to inhibit proliferation of mouse plasma-cytoma cell line (MPC-11). The ED50 value for this effect is typically below 5 ng/ml.
Molecular Mass	Single chain of 14 kDa. Recombinant human Activin B contains a protein chain of 113 amino acids and a 10 aa Histidine-based tag for a total length of 123 aa.

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Endotoxin	Endotoxin level is less than 0.05 EU/ug as measured by LAL method.
Purity	Greater than 95% by SDS page analysis.
Storage	The lyophilized protein, though stable at 2-8°C in the short term, is best stored at -20°C. Reconstituted protein should be used immediately or stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.
Reconstitution	Always centrifuge the vial before opening. It is recommended to reconstitute the lyophilized protein in sterile water to a concentration of no less than 50 µg/ml. Due to the protein nature, dimmers and multimers may be observed. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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