

## Activin B, Human Recombinant

<b>CATALOG #:</b>	7112-10	10 µg
	7112-50	50 µg
<b>ALTERNATE NAMES:</b>	Activin beta-B, Inhibin beta-2	
<b>SOURCE:</b>	(BTI-Tn-5B1-4) Hi-5 Insect cells	
<b>PURITY:</b>	≥ 95% by SDS-PAGE gel and HPLC analyses	
<b>MOL. WEIGHT:</b>	25.6 kDa	
<b>ENDOTOXIN LEVEL:</b>	< 0.1 ng/µg of protein (<1EU/µg).	
<b>FORM:</b>	Lyophilized	
<b>FORMULATION:</b>	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Citrate, pH 3.0 and 5% Trehalose.	
<b>STORAGE CONDITIONS:</b>	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in 10 mM Sodium citrate, pH 3.0 to a concentration of 0.5 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

### DESCRIPTION:

Activin B is a TGF-β family member that exhibits a wide range of biological activities including regulation of embryogenesis, osteogenesis, hematopoiesis, reproductive physiology and hormone secretion from the hypothalamic, pituitary and gonadal glands. Activin B, like certain other members of the TGF-β family, signals through the ActRII receptor (Activin Receptor type II). Human Activin B is a 25.6 kDa disulfide-linked homodimer consisting of two βB chains, each containing 115 amino acid residues.

### BIOLOGICAL ACTIVITY:

Determined by its ability to inhibit the proliferation of mouse MPC-11 cells. The expected ED<sub>50</sub> is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥5 x 10<sup>5</sup> units/mg.

### AMINO ACID SEQUENCE:

GLECDGRTNL CCRQQFFIDF RLIGWNDWII APTGYYGNYC EGSCPAYLAG  
VPGSASSFHT AVVNQYRMRG LNPGTVNSCC IPTKLSTMSM LYFDDEYNIV  
KRDVPMIVE ECGCA

### RELATED PRODUCTS:

- Human Cell<sup>exp</sup> Human Recombinant Activin A (Cat # 6442-10, -50)
- Activin A, human recombinant (Cat. No. 4724-10, -100, -1000)
- Activin A, mouse recombinant (Cat. No. 4725-10, -100, -1000)
- Activin A, rat recombinant (Cat. No. 4726-10, -100, -1000)
- TGF-beta1, human recombinant (Cat. No. 4342-5, -50, -500)
- TGF-beta2, human recombinant (Cat. No. 4340-5, -50, -500)
- TGF-beta3, human recombinant (Cat. No. 4344-5, -50, -500)
- TGF-beta1 Antibody (Cat. No. 5559-100)
- TGF-beta2 Antibody (Cat. No. 5340-100)
- TGF-beta2 Antibody (Cat. No. 5343R-100)
- TGF-beta3 Antibody (Cat. No. 5344R-100)
- Human Recombinant LEFTY-I (Cat # 4873-10, -50)

**FOR RESEARCH USE ONLY! Not to be used in humans.**