

Recombinant Human Activin B

Product 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). Activins are homodimers or heterodimers of different β subunits. They are produced as precursor proteins with an amino terminal propeptide that is cleaved to release the C-terminal bioactive ligand. Human Activin B is a 25.6 kDa disulfide-linked homodimer consisting of two β B chains, each containing 115 amino acid residues.

Typical Specifications

Species	Human
Expression	Hi-5 Insect Cell Expressed
Activity	Typically ≤ 2.0 ng/ml ED50
Purity	$\geq 95\%$
Endotoxin	<1.0 EU/ μ g
Molecular Mass	25.6 kDa
Formulation	10 mM Sodium Citrate, pH 3.0 + 5% Trehalose
Country of Origin	USA

Purity Confirmation

This was determined by SDS-PAGE gel and HPLC analysis.

Activity Assay

Determined by its ability to inhibit the proliferation of mouse MPC-11 cells.

AA Sequence

GLECDGRTNL	CCRQQFFIDF	RLIGWNDWII
APTGYGNYC	EGSCPAYLAG	VPGSASSFHT
AVVNQYRMRG	LNPGLVNSCC	IPTKLSTMSM
LYFDDEYNIV	KRDVPMIVE	ECGCA

Reconstitution Buffer

Centrifuge the vial prior to opening. Reconstitute in 10mM Sodium Citrate, pH 3.0 to a concentration of 0.5 mg/ml. Do not vortex.

Storage

For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% HSA) and store in working aliquots at -20°C to -80°C .

Limited Use and Restrictions

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