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Recombinant Human Activin A

Description: Activin A is a TGF-beta family member that exhibits a wide range of biological activities including regulation of cellular proliferation and differentiation, and promotion of neuronal survival. Elevated levels of Activin A in human colorectal tumors and in post-menopausal woman have been implicated in colorectal and breast cancers, respectively. The biological activities of Activin A can be neutralized by inhibins and by the diffusible TGF-beta antagonist, Follistatin. Human Activin A is a 26 kDa disulfide-linked homodimer of two beta A chains, each containing 116 amino acid residues.

Source:	Insect cells
Molecular Weight:	26 kDa
Purity:	> 95% by SDS-PAGE and HPLC analyses
Endotoxin level:	< 0.1 ng per µg of Activin A
Stabilizer:	none
Formulation:	lyophilized

Biological Activity: The ED50 as determined by its ability to inhibit the proliferation of murine MPC-11 cells is < 2 ng/ml, corresponding to a specific activity of > 5 x 10⁵ units/mg.

Reconstitution: The human Activin A should be reconstituted in water to a concentration of 0.5 mg/ml. This solution can be stored at 4°C for 1 month or -20°C for future use. It is recommended that further dilutions be made in PBS containing 2 mg/ml albumin and stored at -20°C.

Stability: The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted Human Activin A is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. **Avoid repeated freeze-thaw cycles.**

Usage: Human Activin A offered for research use. Not for drug use. **Not for human use.**

Catalogue number: 100-310

Size: 5 µg

****Please note: always centrifuge product before opening vial!****