

## 32-20002: Recombinant Human/Murine/Rat Activin A (E.coli derived)(Discontinued)

**Alternative Name :** Inhibin beta-1, FRP, FSH (Follicle-stimulating hormone)-releasing protein

### Description

#### Source: E.coli

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 postmenopausal women 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. Activin A binds to the two forms of activin receptor type I (Act RI-A and Act RI-B) and two forms of activin receptor type II (Act RII-A and Act RII-B).

Activins are homodimers or heterodimers of different Beta subunits. They are produced as precursor proteins with an amino terminal propeptide that is cleaved to release the C-terminal bioactive ligand. Human/Murine/Rat Activin A is a 26.0 kDa disulfide-linked homodimer of two BetaA chains, each containing 116 amino acid residues.

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Purity: ≥ 97% by SDS-PAGE gel and HPLC analyses.

**Amino Acid :** AA Sequence (monomer): GLECDGKVNI CCKKQFFVSF KDIGWNDWII APSGYHANYC EGECPSHIAG TSGSSLSFHS TVINHRYMRG HSPFANLKSC CVPTKLRPMS MLYYDDGQNI IKKDIQNMIV EECGCS

### Application Note

The ED50 as determined by its ability to inhibit the proliferation of murine MPC-11 cells is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 10<sup>5</sup> units/mg.