Activin A Human Rat Murine (Insect-derived)

Product Data Sheet

Type: Recombinant
Source: (BTI-Tn-5B1-4) Hi-5 Insect cells*
Species: Murine, Rat, Human
Other names: Inhibin beta-1, FRP, FSH (Follicle-stimulating hormone)-releasing protein

Cat. No.:

RBG10052C002	(2 µg)
RBG10052C010	(10 ug)
RBG10052C100	(100 µg)

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 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.

Research topic

Apoptosis, Cardiovascular disease, Neural tissue markers, Oncology

Amino Acid Sequence

GLECDGKVNI CCKKQFFVSF KDIGWNDWII APSGYHANYC EGECPSHIAG TSGSSLSFHS TVINHYRMRG HSPFANLKSC CVPTKLRPMS MLYYDDGQNI IKKDIQNMIV EECGCS

Source

(BTI-Tn-5B1-4) Hi-5 Insect cells*

Purity

95

Biological Activity

The ED_{50} as determined by its ability to inhibit the proliferation of murine MPC-11 cells is 2 ng/ml, corresponding to a specific activity of 5×10^5 units/mg.

Storage, Stability/Shelf Life

- - 20 °C

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