

## Recombinant Human/Murine/Rat Activin A

Catalog No: #AP60131



Package Size: #AP60131-1 10ug #AP60131-2 100ug #AP60131-3 500ug

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## Description

Product Name	Recombinant Human/Murine/Rat Activin A
Host Species	Mammalian Cell
Purification	> 95 % by SDS-PAGE analyses.
Uniprot	P08476
Calculated MW	Apparent molecular mass of 24 kDa in SDS-PAGE under non-reducing conditions, 14 kDa under reducing conditions, a disulfide-linked homodimer of two 116 amino acid glycosylated polypeptide chains.
Formulation	LyophilizedB fromB aB 0.2B umB filteredB concentratedB solutionB inB PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

## Background

Activins and Inhibins are TGF- $\beta$  superfamily cytokines that are involved in tissue morphogenesis and repair, fibrosis, inflammation, neural development, hematopoiesis, reproductive system function, and carcinogenesis. Activin A protects the heart from hypoxic stress and promotes the differentiation of embryonic stem cells into cardiomyocytes. Activins are homodimers or heterodimers of various  $\beta$  subunits ( $\beta$ A,  $\beta$ B,  $\beta$ C, and  $\beta$ E), while Inhibins are heterodimers of a unique  $\alpha$  subunit and one of the  $\beta$  subunits. Activin A is a homodimer of two  $\beta$ A chains. Human  $\beta$ A shares 100% amino acid sequence identity with mouse, rat, bovine, porcine, and feline  $\beta$ A. Activin A binds to Activin RIIA which then associates with Activin RIB/ALK-4. Activin A bioactivity is regulated by cell-associated molecules (BAMBI, Betaglycan, and Cripto) and soluble molecules ( $\beta$ 2-Macroglobulin, Follistatin, and FLRG).

Note: This product is for in vitro research use only