Recombinant Human/Murine/Rat Activin A

Catalog No: #AP60131

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

Description

Product Name	Recombinant Human/Murine/Rat Activin A
Host Species	Mammalian Cell
Purification	> 95 % by SDS-PAGE analyses.
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.B
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
	- A minimum of 12 months from date of receipt, when stored at ≤-20 °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-β 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 β subunits (βA, βB, βC, and βE), while Inhibins are heterodimers of a unique α subunit and one of the β subunits. Activin A is a homodimer of two βA chains. Human βA shares 100% amino acid sequence identity with mouse, rat, bovine, porcine, and feline βA. 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 (β2-Macroglobulin, Follistatin, and FLRG).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.