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Recombinant Human/Mouse/Rat Activin A protein(His Tag)

Catalog Number: PKSH034165

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Species Human/Mouse/Rat

Source E.coli-derived Human/Mouse/Rat Activin A protein Gly 311-Ser 426

Calculated MW13.1 kDaObserved MW15 kDaAccessionP08476

Bio-activity Measure by its ability to inhibit the proliferation of mouse MPC-11 cells. The ED_{50} for

this effect is <10 ng/mL. The specific activity of recombinant human Activin A is

approximately $> 1.0 \times 10^3$ IU/mg.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 0.1 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4.

Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Background

Activins, members of the TGF-beta superfamily, are disulfide-linked dimeric proteins originally purified from gonadal fluids as proteins that stimulated pituitary follicle stimulating hormone (FSH) release. Inhibins/activins are involved in regulating a number of diverse functions such as hypothalamic and pituitary hormone secretion, gonadal hormone secretion, germ cell development and maturation, erythroid differentiation, insulin secretion, nerve cell survival, embryonic axial development or bone growth, depending on their subunit composition. Activins are homodimers or heterodimers of the various beta subunit isoforms, while inhibins are heterodimers of a unique alpha subunit and one of the various beta subunits.