

## Recombinant Human Activin-A (rh Activin-A)

**Synonyms:** Erythroid differentiation protein, EDF, Inhibin-Beta A chain.

**Introduction:** 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 post-menopausal woman 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. Mature Activin A has two 116 amino acids residues  $\beta$ A subunits ( $\beta$ A- $\beta$ A).

**Description:** Human recombinant Activin-A produced in E.Coli is a single monomeric, non-glycosylated, polypeptide chain containing 137 amino acids (311-426) and having an amino-terminal hexa-histidine tag, having a total molecular weight of 15.2 kDa.

The Activin-A is purified by standard chromatographic techniques.

**Source:** *Escherichia coli*

**Physical Appearance:** Sterile filtered clear solution.

**Formulation:** Activin-A protein solution (1mg/ml) contains 20mM Tris, pH 8.0 and 10% glycerol

**Stability:** Store Inhibin-Beta, Alpha chain at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please avoid freeze thaw cycles.

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 $\mu$ g	Cat.N°	11344962
<i>medium</i>	10 $\mu$ g	Cat.N°	11344963

**ImmunoTools** Excellent Quality - Advantageously priced

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