

Datasheet

Recombinant Activin A

Catalog Number: PR15010

Product Type: Recombinant protein

Source: A DNA sequence encoding the human Activin A protein sequence (Mason, A. *et al.*, 1986, *Biochem. Biophys. Res. Commun.* **135**:957 - 964) was expressed in CHO cells.

Sequence identical in Human, Mouse and Rat

Molecular Mass: Recombinant human mature Activin A is a disulfide-linked homodimer of two 116 amino acid residue β A subunits. The mature β A monomer lacks a potential N-linked glycosylation site and has a calculated molecular mass of 13 kDa.

Purity: > 95%, as determined by SDS-PAGE and visualized by silver stain.

Endotoxin Levels: < 1.0 EU per 1 μ g of the cytokine as determined by the LAL method.

Activity: Measured by its ability to induce hemoglobin expression in K562 cells (Schwall, R.H. *et al.*, 1991, *Method Enzymol.* **198**:340).

The ED₅₀ for this effect is typically 0.5 - 2 ng/mL.

Format: Lyophilized from a 0.2 μ m filtered solution in 35% acetonitrile, 0.1% TFA containing 50 μ g of bovine serum albumin per 1 μ g of cytokine.

Reconstitution: It is recommended that sterile PBS containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 10 μ g/mL.

Storage: Lyophilized samples are stable for up to six months at -20° C to -70° C.

Upon reconstitution, this cytokine, in the presence of a carrier protein, can be stored under sterile conditions at 2 - 8° C for one month or at -20° C to -70° C **in a manual defrost freezer** for three months without detectable loss of activity.

Avoid repeated freeze-thaw cycles.
