

Certificate of Analysis

Recombinant Human Activin A

Catalog# 120-14

Lot # 1106S304

Expiration Date: December 2011

Source: (BTI-Tn-5B1-4) Hi-5 Insect cells*

Sequence: GLECDGKVNI CCKKQFFVSF KDIGWNDWII
APSGYHANYC EGECPSHIAG TSGSSLSFHS TVINHYMRG
HSPFANLKSC CVPTKLRPMS MLYYDDGQNI IKKDIQNMIV
EECGCS

Synonyms: none

Description: Activin A is a TGF- β 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 postmenopausal women 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- β antagonist, follistatin. Human Activin A is a 26.0 kDa disulfide-linked homodimer of two β A chains, each containing 116 amino acid residues.

**Manufactured using BTI-Tn-5B1-4 cells under license from the Boyce Thompson Institute for Plant Research, Inc.*

Purity: $\geq 95\%$ by SDS-PAGE gel and HPLC analyses.

Endotoxin: Endotoxin level is < 0.1 ng/ μ g of Activin A (< 1 EU/ μ g).

Formulation: Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Citric Acid, pH 3.0.


Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage/Stability: The lyophilized protein is stable at room temperature for up to 1 month. Working aliquots stored with a carrier protein are stable for at least 7 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

Biological activity: Determined by its ability to inhibit the proliferation of mouse MPC-11 cells. The expected ED₅₀ is ≤ 2.0 ng/ml, corresponding to a specific activity of $\geq 5 \times 10^5$ units/mg.

For a list of references using this product please visit our website at www.peprotech.com

Country of Origin: USA



QC Manager

Usage: For Research Use Only. Not for use in diagnostic or therapeutic procedures.