


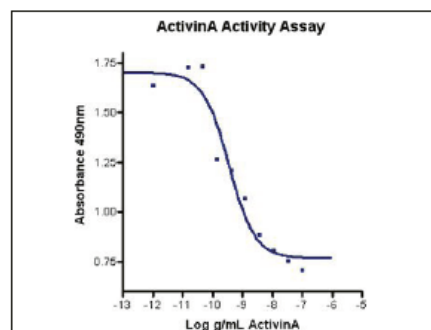
CA1042	HumanKine™ Activin A			
	Prod. No. S2300-10UG	lot #: PR1XXXXXX XXXX	Orders & Support	866 372-7442 support@primorigen.com
	<i>For Research Use Only Not intended for use in humans or animals</i>		Web	www.primorigen.com

Pack Size	10 µg
Species	Human
Expression System	HEK 293*
	Animal-derived product free
Molecular Mass	25 kDa homodimer, glycosylated
Activity	Typically 0.5 to 5 ng/mL ED50
Purity	≥ 95%
Endotoxin	≤ 1 EU/µg

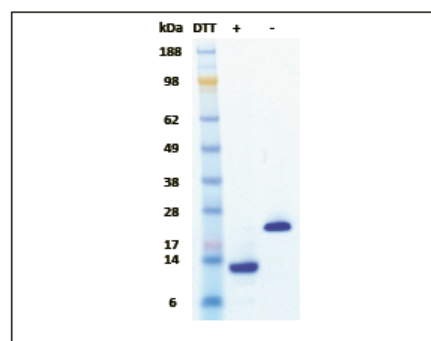
Background: Recombinant human Activin A is expressed in engineered human cells. Activin A is a 25 kDa disulfide linked homodimer and belongs to the TGF-beta superfamily. Activins are important for germ cell development and maturation, insulin secretion, nerve cell survival, and the axial development of the embryo. Inhibins and activins regulate the secretion of follitropin by the pituitary gland and also contribute in regulating various functions such as hypothalamic, gonadal hormone secretion and erythroid differentiation.

Note: Representative data are shown below (not Lot-specific).

A. Activity Assay



B. SDS-PAGE



Formulation:

Lyophilized from a 0.2 micron filtered solution in PBS.

Reconstitution:

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

Storage and Stability:

Lyophilized products are stable for one year at -20°C to -80°C from date of receipt. Store only at -20°C to -80°C in working aliquots. Avoid repeated freeze-thaw cycles.

Quality Control Testing

Assay:

The specific activity was determined by the dose-dependent inhibition of proliferation of the MPC-11 cell line (mouse plasmocytoma cell line).

Purity Confirmation:

The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

References:

Phillips, D.J., *et al* (1999) *J. Endocrinology* 162, 111-116
 McDowall, N. M., *et al* (2008) *Cytokine and Growth Factor Reviews* 19, 415-426

**All HumanKine™ cytokines are expressed in HEK 293 cells.
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