
Product Data Sheet

Product Name: Activin-A Human, HEK-Active

Cat. No.: GP20003

Batch No.: 1

Product Data

Purity	>98%	Source	HEK.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Inhba; Inhibin beta A; FSH releasing protein.		
Solubility	It is recommended to reconstitute the lyophilized Activin-A in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The Activin-A was lyophilized from 1mg/ml in 1xPBS.		

Introduction

Activins are homodimers or heterodimers of the different α subunit isoforms, part of the TGF α family. Mature Activin A has two 116 amino acids residues α subunits (α - α). Activin displays an extensive variety of biological activities, including mesoderm induction, neural cell differentiation, bone remodelling, haematopoiesis, and reproductive physiology. Activins takes part in the production and regulation of hormones such as FSH, LH, GnRH and ACTH. Cells that are identified to express Activin A include fibroblasts, endothelial cells, hepatocytes, vascular smooth muscle cells, macrophages, keratinocytes, osteoclasts, bone marrow monocytes, prostatic epithelium, neurons, chondrocytes, osteoblasts, Leydig cells, Sertoli cells, and ovarian granulosa cells.

Biological Activity

The specific activity was determined by the dose-dependent inhibition of proliferation of the MPC-11 cell line (mouse plasmocytoma cell line) and is typically 0.5-5ng/ml.

Stability

Lyophilized Activin-A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Activin-A should be stored at 4°C between

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2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Background

Activin-A Human Recombinant produced in HEK cells is a non-glycosylated disulfide-linked homodimer, having a total molecular weight of 25kDa.The Activin-A is purified by proprietary chromatographic techniques.

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