

## Active Recombinant Mouse Inhba Protein

**Cat. No.** Inhba-01M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active form Activin-A Murine Recombinant produced in E. coli is a homodimeric, non-glycosylated, polypeptide chain containing 2 x 117 amino acids and having a molecular weight of 26.2 kDa. The Active form Activin-A is purified by standard chromatographic techniques.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	This gene encodes a member of the TGF-beta (transforming growth factor-beta) superfamily of proteins. The encoded preprotein is proteolytically processed to generate a subunit of the dimeric activin and inhibin protein complexes. These complexes activate and inhibit, respectively, follicle stimulating hormone secretion from the pituitary gland. The encoded protein also plays a role in eye, tooth and testis development. Homozygous knockout mice for this gene lack whiskers and exhibit tooth and palate defects, leading to neonatal lethality.
<b>Form</b>	Lyophilized freeze dried powder.
<b>Bio-activity</b>	Biological activity is assessed by the ability to induce cytotoxicity of MPC-11 cells and was found to be 8.8 ng/mL corresponding to a specific activity of 1.1 x 10 <sup>5</sup> units/mg.
<b>Molecular Mass</b>	26.2 kDa
<b>AA Sequence</b>	MGLECDGKVNICCKKQFFVFSKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSL

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	SFHSTVINHYRMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIKKDIQNMIVEEC GCS
<b>Purity</b>	>95%
<b>Usage</b>	Our products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
<b>Storage</b>	Lyophilized Activin-A although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution Activin-A should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Storage Buffer</b>	Mouse Activin-A lyophilized from a concentrated 1 mg/mL protein solution containing 0.1% TFA.
<b>Reconstitution</b>	Murine INHBA protein should be reconstituted in distilled pyrogen free water to a concentration of 100 µg/mL which can then be further diluted to other aqueous solutions.
<b>Shipping</b>	Shipped at room temperature.

## GENE INFORMATION

<b>Gene Name</b>	Inhba inhibin beta-A [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Inhba
<b>Synonyms</b>	Inhba; inhibin beta-A; inhibin beta A chain; activin A; activin beta-A chain

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Gene ID	16323
mRNA Refseq	NM_008380
Protein Refseq	NP_032406
UniProt ID	Q04998

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