

Active Recombinant Mouse Inhba Protein

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	E.coli
Description	This gene encodes a member of the TGF-beta (transforming growth factor-beta) superfamily of proteins. The encoded preproprotein 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.
Form	Lyophilized freeze dried powder.
Bio-activity	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 ⁵ units/mg.
Molecular Mass	26.2 kDa
AA Sequence	MGLECDGKVNICKKKQFFVSFKDIGWNDWIIAPSGYHANYCEGECPSHIAGTSGSSL

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	SFHSTVINHYMRGHSPFANLKSCCVPTKLRPMSMLYYDDGQNIKKDIQNMIVEEC GCS
Purity	>95%
Usage	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.
Storage	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.
Storage Buffer	Mouse Activin-A lyophilized from a concentrated 1 mg/mL protein solution containing 0.1% TFA.
Reconstitution	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.
Shipping	Shipped at room temperature.

GENE INFORMATION

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