

Recombinant Human/Mouse/Rat INHBA Protein

Cat. No. INHBA-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human/mouse/rat Activin A PLUS protein without tag was expressed in E. coli. Animal-free (AOF) and carrier protein-free. Mass spectrometry: single species with expected mass. Analytical reversed-phase: single sharp peak. Recovery from stock vial: >95%
Species	Human
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. Elevated expression of this gene may be associated with cancer cachexia in human patients.
Molecular Mass	24 kDa (dimer)
Endotoxin	<0.005 EU/μg protein (below level of detection)
Applications	Maintenance of pluripotency in human iPSC

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Storage Resuspend in 10mM HCl at >100 µg/mL, prepare single use aliquots, add carrier protein if desired and store frozen at -20 or -80 centigrade

Storage Buffer Lyophilized from acetonitrile, TFA

GENE INFORMATION

Gene Name INHBA inhibin subunit beta A [Homo sapiens (human)]

Official Symbol INHBA

Synonyms INHBA; inhibin subunit beta A; EDF; FRP; inhibin beta A chain; FSH-releasing protein; Inhibin, beta-1; activin beta-A chain; erythroid differentiation factor; erythroid differentiation protein; follicle-stimulating hormone-releasing protein; inhibin beta A subunit; inhibin, beta A (activin A, activin AB alpha polypeptide)

Gene ID 3624

mRNA Refseq NM_002192

Protein Refseq NP_002183

MIM 147290

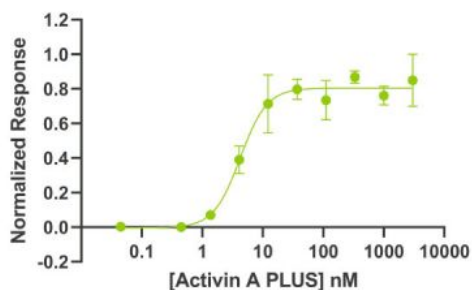
UniProt ID P08476

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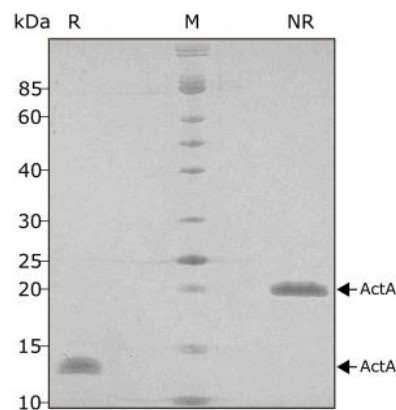
Bioactivity



Activin A PLUS activity is determined using an activin-responsive firefly luciferase reporter in HEK293T cells, in triplicate with a serial dilution of activin A for 6 hours.

Firefly luciferase activity is measured and normalized to the control Renilla luciferase activity. EC₅₀ = 0.103 ng/mL (4.24 pM). EC₅₀ is within the expected range of 6 ± 2 pM.

Purity



Activin A PLUS migrates as a single band at 24 kDa in non-reducing and 13 kDa as a single monomeric species upon reduction (R). No contaminating protein bands are visible. Purified recombinant protein was resolved using 15% w/v SDS-PAGE in reduced and non-reduced conditions and stained with Coomassie Brilliant Blue R250.

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