

Recombinant Human/Mouse/Rat/Bovine/Porcine INHBA Protein

Cat. No. INHBA-24H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human/mouse/rat/bovine/porcine activin A 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	26 kDa (dimer)
Endotoxin	<0.005 EU/μg protein (below level of detection)
Applications	Large scale Stem cell Expansion

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

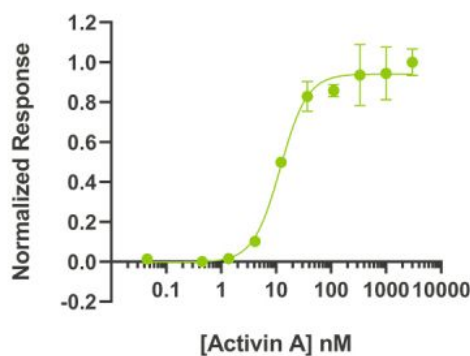
P08476

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

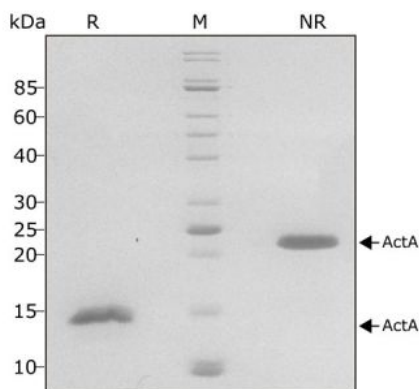
 45-1 Ramsey Road, Shirley, NY 11967, USA

Bioactivity



Activin A protein activity is determined using an activin-responsive firefly luciferase reporter in HEK293T cells. EC₅₀ = 0.310 ng/mL.

Purity



ActA 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.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

Purified recombinant protein was resolved using 15% w/v SDS-PAGE in reduced and non-reduced conditions and stained with Coomassie Brilliant Blue R250.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA