

GMP Activin A Protein, Human/Mouse/Rat (HEK293)

Cat. No.:	HY-P70311G
Synonyms:	rHuActivin A; Inhibin beta A chain; INHBA; Activin A
Species:	Rat;Mouse;Human
Source:	HEK293
Accession:	P08476 (G311-S426)
Gene ID:	3624
Molecular Weight:	13-15 kDa

PROPERTIES

AA Sequence	<p> G L E C D G K V N I C C K K Q F F V S F K D I G W N D W I I A P S G Y H A N Y C E G E C P S H I A G T S G S S L S F H S T V I N H Y R M R G H S P F A N L K S C C V P T K L R P M S M L Y Y D D G Q N I I K K D I Q N M I V E E C G C S </p>
Biological Activity	The specific activity is $> 7.0 \times 10^5$ IU/mg by Reporter gene method.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μ m filtered solution of 4 mM HCl.
Endotoxin Level	< 0.01 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p> INHBA protein assumes a pivotal role in the intricate regulation of pituitary gland function, contributing to the opposing dynamics of inhibiting and activating follitropin secretion alongside activins. The expansive influence of inhibins and activins, with INHBA as a central player, spans a spectrum of physiological processes, including hypothalamic and pituitary hormone secretion, gonadal hormone secretion, germ cell development and maturation, erythroid differentiation, insulin secretion, nerve cell survival, embryonic axial development, and bone growth, contingent upon their unique subunit compositions. Notably, inhibins, such as Inhibin A and Inhibin B, emerge as counterparts opposing the functions of activins. Structurally, INHBA exists in a dimeric form, intricately linked by one or more disulfide bonds, representing a homodimer of beta-A subunits. The diversity of activins, encompassing Activin A, Activin B, and Activin AB, further emphasizes their specific </p>
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subunit compositions, influencing interactions with regulatory proteins like FST and FSTL3. This intricate interplay underscores INHBA's central role in orchestrating a finely tuned regulatory network governing diverse physiological functions.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA