

Recombinant Human/Mouse/Rat mature Activin A/INHBA Protein

Catalog No.: RP01782S **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3624	P08476

Tags

No-Tag

Synonyms

EDF; FRP; INHBA; Activin A

Product Information

Source Purification

CHO Cells

Calculated MW Observed MW

12.98 kDa

15-20 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

The inhibin beta A subunit joins the alpha subunit to form a pituitary FSH secretion inhibitor. Inhibin has been shown to regulate gonadal stromal cell proliferation negatively and to have tumor-suppressor activity. In addition, serum levels of inhibin have been shown to reflect the size of granulosa-cell tumors and can therefore be used as a marker for primary as well as recurrent disease. Because expression in gonadal and various extragonadal tissues may vary severalfold in a tissue-specific fashion, it is proposed that inhibin may be both a growth/differentiation factor and a hormone. Furthermore, the beta A subunit forms a homodimer, activin A, and also joins with a beta B subunit to form a heterodimer, activin AB, both of which stimulate FSH secretion. Finally, it has been shown that the beta A subunit mRNA is identical to the erythroid differentiation factor subunit mRNA and that only one gene for this mRNA exists in the human genome.

Basic Information

Description

Recombinant Human/Mouse/Rat mature Activin A/INHBA Protein is produced by CHO cells expression system. The target protein is expressed with sequence (Gly311-Ser426) of Human/Mouse/Rat mature Activin A/INHBA (Accession #NP_002183.1) fused with a His tag at the N-terminus.

Bio-Activity

Measured by its ability to inhibit proliferation of MPC-11 cells. The ED₅₀ for this effect is 3.215-12.86 ng/mL, corresponding to a specific activity of 7.78×10⁴~3.11×10⁵ units/mg.

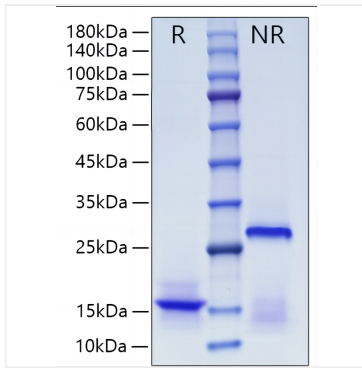
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

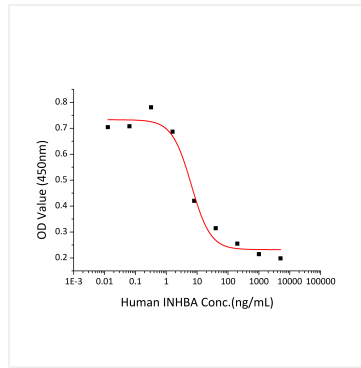
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human/Mouse/Rat mature Activin A/INHBA Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions showing single bands at 15-20 kDa and 25-30 kDa, respectively.



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