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

Catalog No.: RP01782S

Sequence Information

Species
Human,Mouse, Rat

Gene ID
3624

Swiss Prot
P08476

Tags
No-Tag

Synonyms
EDF; FRP; INHBA; Activin A

Product Information

Source
CHO Cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
12.98 kDa

Observed MW
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
Centrifμge 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 No Tag.

Activity
Measured by its ability to inhibit proliferation of MPC-11 cells. The ED_{50} for this effect is 3.215-12.86 ng/mL, corresponding to a specific activity of 7.78 $\times10^4$~3.11$\times10^5$ units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

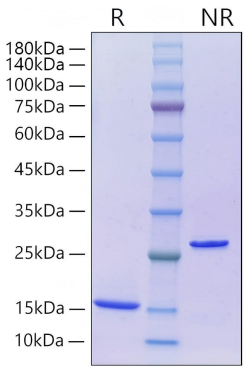
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

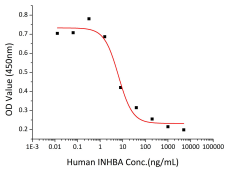
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Validation Data



Recombinant Human/Mouse/Rat mature Activin A/INHBA Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions.



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