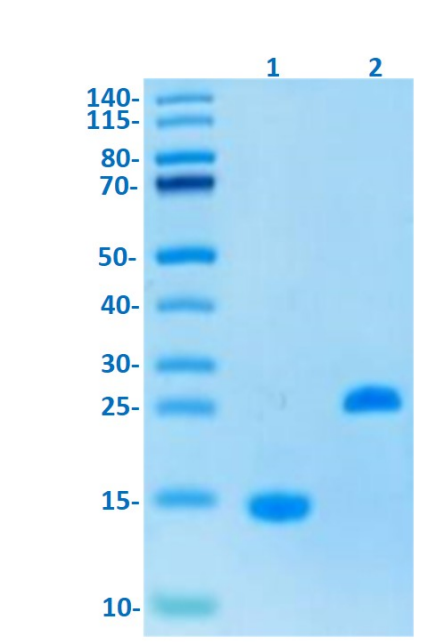
Bioactive

# INHBA (Human) Recombinant Protein

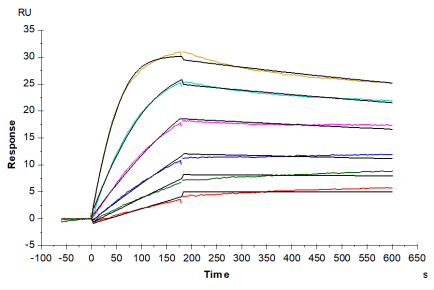
Catalog # P10690 Size 100 ug

## Applications




### SDS-PAGE

Human INHBA on Bis-Tris PAGE under reduced (R) condition and Non reducing (N) condition. The purity is greater than 95%.




### Surface Plasmon Resonance

Biotinylated Human INHBA RIIB, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human INHBA, No Tag with an affinity constant of 55.35 pM as determined in SPR assay (Biacore T200).

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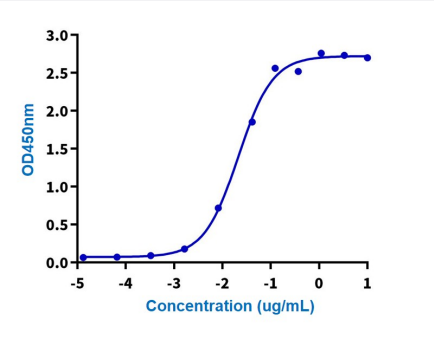
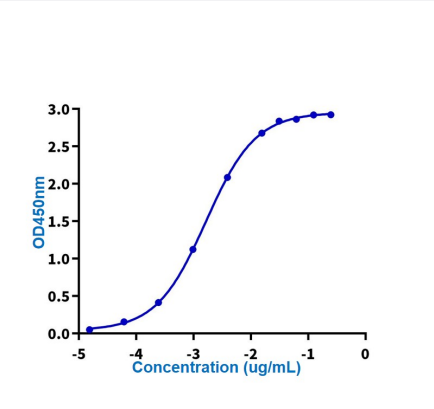


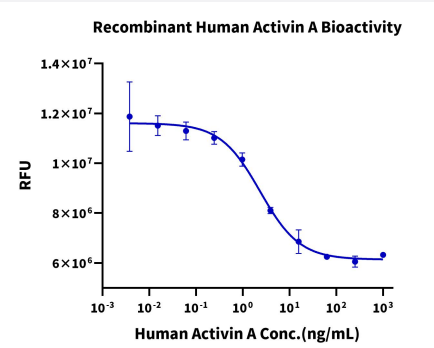

## ELISA

Immobilized Human INHBA, No Tag at 1 ug/mL (100 uL/well) on the plate. Dose response curve for Human INHBA RIIB, His Tag with the $EC_{50}$ of 21.4 ng/mL determined by ELISA.




## ELISA

Immobilized Human INHBA, No Tag at 1 ug/mL (100 uL/well) on the plate. Dose response curve for Human INHBA RIIA, hFc Tag with the $EC_{50}$ of 1.6 ng/mL determined by ELISA.




## ELISA

Measured by its ability to inhibit proliferation of MPC-11 cells. The $ED_{50}$ for this effect is <7 ng/mL (QC Test).

## Specification

| | |
|---|---|
| **Product Description** | Human INHBA (P08476, Gly311-Ser426) partial recombinant protein expressed in HEK293 cells. |
| **Sequence** | Gly311-Ser426 |
| **Host** | Human |
| **Theoretical MW (kDa)** | 12.97 |
| **Reactivity** | Mouse |
| **Form** | Lyophilized |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purity** | > 95% by Tris-Bis PAGE |

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| | |
|---|---|
| **Endotoxin Level** | < 0.1 EU per 1 ug as determined by the LAL method. |
| **Activity** | The $EC_{50}$ was 21.4 ng/mL determined by ELISA.<br>The affinity constant was 55.35 nM, determined by SPR assay. |
| **Recommend Usage** | Biological Activity<br>ELISA<br>SPR<br>Tris-Bis PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from 0.22 um filtered solution in 4 mM HCl. Normally 8% trehalose is added as protectant before lyophilization. |
| **Storage Instruction** | Store at -20°C for 12 months.<br>After reconstitution, store at -80°C for 3 months.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Enzyme-linked Immunoabsorbent Assay
- SDS-PAGE

  Human INHBA on Bis-Tris PAGE under reduced (R) condition and Non reducing (N) condition. The purity is greater than 95%.
- Surface Plasmon Resonance

  Biotinylated Human INHBA RIIB, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human INHBA, No Tag with an affinity constant of 55.35 pM as determined in SPR assay (Biacore T200).

## Gene Info — INHBA

| | |
|---|---|
| **Entrez GeneID** | 3624 |
| **Protein Accession#** | P08476 |
| **Gene Name** | INHBA |
| **Gene Alias** | EDF, FRP |
| **Gene Description** | inhibin, beta A |
| **Omim ID** | 147290 |
| **Gene Ontology** | Hyperlink |

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| | |
|---|---|
| **Gene Summary** | 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. [provided by RefSeq |
| **Other Designations** | FSH-releasing protein\|Inhibin, beta-1\|erythroid differentiation factor\|follicle-stimulating hormone-releasing protein\|inhibin beta A\|inhibin, beta A (activin A, activin AB alpha polypeptide) |

## Pathway

- Cytokine-cytokine receptor interaction
- TGF-beta signaling pathway

## Disease

- Amyotrophic lateral sclerosis
- Anoxia
- Breast Neoplasms
- Cleft Lip
- Cleft Palate
- Colorectal Neoplasms
- Disease Models
- Genetic Predisposition to Disease
- Mental Disorders
- Neoplasms
- Obesity
- Ovarian cancer
- Ovarian Failure

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- Ovarian Neoplasms
- Polycystic Ovary Syndrome
- Prostate cancer
- Prostatic Neoplasms
- Puberty
- Testicular Neoplasms
- Thrombophilia
- Tobacco Use Disorder

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