

Mouse Inhibin beta A / INHBA Protein (His Tag)

Catalog Number: 50659-M08H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

inhba

Protein Construction:

A DNA sequence encoding the pro form of mouse INHBA (NP_032406.1) (Met 1-Ser 424) was expressed, with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: Human Cells

QC Testing

Purity: > 88 % as determined by SDS-PAGE

Bio-Activity:

1. Measured by its binding ability in a functional ELISA.
2. Immobilized human ACVR2B (Cat:10229-H02H) at 10 µg/mL (100 µl/well) can bind biotinylated mouse INHBA-His (Cat:50659-M08H), The EC₅₀ of biotinylated mouse INHBA-His (Cat:50659-M08H) is 0.161 µg/mL.
3. Immobilized mouse INHBA-his at 10 µg/mL (100 µl/well) can bind human Follistatin Protein, The EC₅₀ of human Follistatin Protein is 0.39 µg/mL.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ser 21

Molecular Mass:

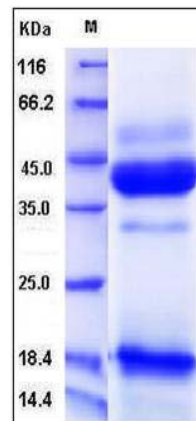
The secreted recombinant mouse INHBA comprises 415 amino acids and has a calculated molecular mass of 46.5 kDa. As a result of glycosylation, the apparent molecular mass of rmINHBA is approximately 18 & 43 kDa corresponding to the mature inhibin beta A chain and the pro domain respectively in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

SDS-PAGE:



Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

Inhibins/activins are involved in regulating a number of biological processes, such as hypothalamic, pituitary and gonadal hormone secretion, germ cell development and maturation, erythroid differentiation, nerve cell survival, embryonic axial development or bone growth, depending on their subunit composition. Inhibins/activins are homo or hetero dimers linked by one or more disulfide bonds. Inhibin A/B is a dimer of alpha and beta-A or beta-B, while Activin A/B/AB is a homodimer of beta-A and beta-B, or a heterodimer of beta-A and beta-B, respectively. Mouse inhibin beta A chain (INHBA), also known as activin beta A chain, together with INHBB, are closely related TGF-beta superfamily members. INHBA overexpression may promote cell proliferation and showed a significantly higher expression in tumors than in normal tissues. INHBA may be suggested as a promising prognostic marker of head and neck squamous cell carcinoma.

References

1. Seder C.W. et al., 2009, J Thorac Oncol. 4 (4): 455-462.
2. Li L. et al., 2009, Endocrinology. 150 (8): 3521-3529.
3. Seder C.W. et al., 2009, Neoplasia. 11 (4): 388-396.
4. Shimizu S. et al., 2007, Oncol Rep. 18 (6): 1489-1497.
5. Yang S. et al., 2007, Biochim Biophys Acta. 1772 (9): 1033-1040.

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