

Human Inhibin beta B / INHBB / Activin B Protein (His Tag)

Catalog Number: 10814-H08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

MGC157939, INHBB

Protein Construction:

A DNA sequence encoding the pro form of human INHBB (NP_002184.2) (Met 1-Ala 407) was expressed, fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio-Activity

Measured by its binding ability in a functional ELISA.
Immobilized human INHBB-His (Cat: 10814-H08H) at 10 µg/ml (100 µl/well) can bind biotinylated mouse FLRG-His (Cat: 10591-M08H) with a linear range of 0.031-0.125 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 29

Molecular Mass:

The secreted pro form of human INHBB comprises 390 amino acids with a predicted molecular mass of 43.7 kDa. As a result of glycosylation, the apparent molecular mass of rhINHBB is approximately 17, 42 and 55 kDa in SDS-PAGE under reducing conditions, corresponding to the mature form, pro peptide and pro form respectively.

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.

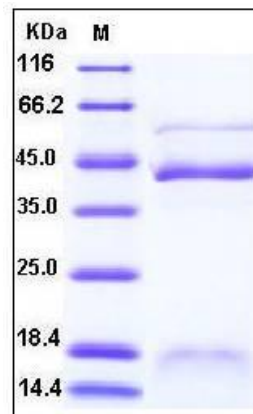
Usage Guide

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.

SDS-PAGE:



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. Inhibin beta B chain (INHBB), also known as activin beta B chain, together with INHBA, are closely related TGF-beta superfamily members. INHBB is synthesized as a precursor of 407 aa, including a signal peptide of 28 aa, and the pro form of 379aa which is further processed into a mature form of 115 aa after removal of the long propeptide.

References

1. Seder CW. et al., 2009, J Thorac Oncol. 4 (4): 455-462.
2. Li L. et al., 2009, Endocrinology. 150 (8): 3521-3529.
3. Seder CW. 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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