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Datasheet for ABIN809197 INHBB Protein (His tag)

2 Images



Overview

Quantity:	100 µg
Target:	INHBB
Origin:	Human
Source:	Tobacco (Nicotiana benthamiana)
Protein Type:	Recombinant
Purification tag / Conjugate:	This INHBB protein is labelled with His tag.
Application:	Western Blotting (WB)

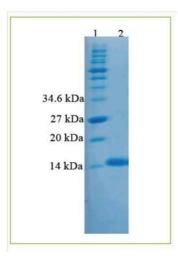
Product Details

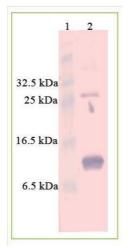
Characteristics:	Serological Identification: The protein was electrophoresed under reducing condition on a 15 $\%$
	SDS-polyacrylamide gel, transferred by electroblotting to a NC membrane and visualized by
	immune-detection with specific antibody Activin B.
	Molecular formula: C615H910N1780177S12.
	Isoelectric Point: 6,4.
	Extinction coefficient: E 0.1 % (1g/L) = 1.56 (A 280 nm).
	This product contains no animal-derived components or impurities. Produced by transient
	expression of Activin B in non-transgenic plants.
Purification:	Recombinant human Activin B contains a His-tag at the N-terminal end and is purified by
	sequential chromatography (FPLC).
Purity:	> 97 % by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie
	blue.
Endotoxin Level:	< 0.04 EU/µg protein (LAL method)

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Target Details	
Target:	INHBB
Alternative Name:	INHBB (INHBB Products)
Background:	Synonyms: Activin beta-B chain, Inhibin beta B chain precursor, Inhibin, beta-2 Activins are homodimers or heterodimers of the various beta subunit isoforms, belonging to the TGF-beta family. Mature Activin B has two chains of 123 amino acids residues (betaB-betaB). Activin exhibits a wide range of biological activities, including mesoderm induction, neural cell differentiation, bone remodelling, haematopoiesis, and reproductive physiology. Activins plays a key role in the production and regulation of hormones such as FSH, LH, GnRH and ACTH. Inhibins/Activins are protein that are formed by the dimerization of two subunits, i. e. an alpha (alpha) with either beta A (betaA) - Inhibin A or beta B (betaB) - Inhibin B. The subunits betaA and betaB can also form homodimers or heterodimers called Activin: Activin A (betaA-betaA), Activin B (betaB -betaB) and Activin AB (betaA -betaB). The Activin gene family comprises the additional, but poorly characterized members' Activin betaC (betaC), beta D (betaD) and beta E (betaE). As with other members of the super-family, Activins interact with two types of cell surface trans-membrane receptors (Types I and II) which have intrinsic serine/threonine kinase activities in their cytoplasmic domains, Activin type 1 receptors, ACVR1, ACVR1B, ACVR1C and Activin type 2 receptors, ACVR2A, ACVR2B.
Molecular Weight:	14 kDa
Gene ID:	3625, 147390
Pathways:	Peptide Hormone Metabolism, Hormone Activity, Negative Regulation of Hormone Secretion
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Lyophilized protein should be reconstituted in water to a concentration of 50 ng/ μ L. Due to the protein nature, dimmers and multimers may be observed.
Buffer:	Tris HCl 0.05 M buffer at pH 7.4
Storage:	4 °C

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SDS-PAGE

Image 1. SDS-PAGE analysis of recombinant Activin B. Samples were loaded in 15 % SDS-polyacrylamide gel and stained with Coomassie blue. Lane 1: Molecular weight marker (kDa), Lane 2: contains 0.5 μ g of recombinant Activin B.

Western Blotting

Image 2. Western Blot analysis of recombinant Activin B. Lane 1: Molecular weight marker (kDa). Lane 2: 0.2 μ g of Activin B.

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