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Recombinant human Inhibin A protein

Catalog Number: ATGP1898

PRODUCT INFORMATION

Expression system

E.coli

Domain

233-366aa

UniProt No.

P05111

NCBI Accession No.

NP 002182

Alternative Names

inhibin alpha chain, A inhibin subunit precursor, IHA

PRODUCT SPECIFICATION

Molecular Weight

17 kDa (155aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

INHA, also known as Inhibin alpha, belongs to the TGF-beta family. Inhibins and activins inhibit and activate, respectively, the secretion of follitropin by the pituitary gland. The inhibin alpha subunit joins either the beta A or beta B subunit to form a pituitary FSH secretion inhibitor. Inhibin has been shown to regulate gonadal stromal cell proliferation negatively and to have tumour-suppressor activity. Inhibins/activins are involved in regulating a number of diverse functions such as hypothalamic and pituitary hormone secretion, gonadal hormone secretion, germ cell development and maturation, erythroid differentiation, insulin secretion, nerve cell survival, embryonic



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axial development or bone growth, depending on their subunit composition. Inhibins appear to oppose the functions of activins. Recombinant human INHA protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

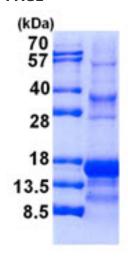
MGSSHHHHHH SSGLVPRGSH MSTPLMSWPW SPSALRLLQR PPEEPAAHAN CHRVALNISF QELGWERWIV YPPSFIFHYC HGGCGLHIPP NLSLPVPGAP PTPAQPYSLL PGAQPCCAAL PGTMRPLHVR TTSDGGYSFK YETVPNLLTQ HCACI

General References

Knight, P.G. (1996) Front. Neuroendocrinol. 17: 476-509. Mather, J.P., et al. (1997). Proc. Soc. Exp. Biol. Med. 215: 209-222.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.