

Product Data Sheet

Animal-Free Activin A Protein, Human/Mouse/Rat (His)

| Cat. No.: | HY-P700159AF |
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| Synonyms: | Activin beta-A chain; EDF; Erythroid differentiation factor; Erythroid differentiation protein; Follicle stimulating hormone releasing protein; FRP; FSH releasing protein; INHBA; INHBA_HUMAN; Inhibin beta A chain; Inhibin beta A subunit; Inhibin, beta 1; Inhibin, beta A activin A, activin AB alpha polypeptide; |
| Species: | Human;Rat;Mouse |
| Source: | E. coli |
| Accession: | P08476 (G311-S426) |
| Gene ID: | 3624 |
| Molecular Weight: | Approximately 13.9 kDa |

DESCRIPTION

Background INHBA protein assumes a pivotal role in the intricate regulation of pituitary gland function, contributing to the opposing dynamics of inhibiting and activating follitropin secretion alongside activins. The expansive influence of inhibins and activins, with INHBA as a central player, spans a spectrum of physiological processes, including hypothalamic and pituitary hormone secretion, gonadal hormone secretion, germ cell development and maturation, erythroid differentiation, insulin secretion, nerve cell survival, embryonic axial development, and bone growth, contingent upon their unique subunit compositions. Notably, inhibins, such as Inhibin A and Inhibin B, emerge as counterparts opposing the functions of activins.

Structurally, INHBA exists in a dimeric form, intricately linked by one or more disulfide bonds, representing a homodimer of beta-A subunits. The diversity of activins, encompassing Activin A, Activin B, and Activin AB, further emphasizes their specific subunit compositions, influencing interactions with regulatory proteins like FST and FSTL3. This intricate interplay underscores INHBA's central role in orchestrating a finely tuned regulatory network governing diverse physiological functions.

Caution: Product has not been fully validated for medical applications. For research use only.

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