

Active Recombinant Human/Mouse/Rat INHBA Protein (Gly311-Ser426), GMP Grade

Cat. No. INHBA-09HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP recombinant human/Mouse/Rat Activin A protein (Gly311-Ser426) without tag was expressed in Chinese Hamster Ovary cell line and manufactured and tested under cGMP guidelines.
Species	Human/Mouse/Rat
Source	CHO
ProteinLength	Gly311-Ser426
Description	This gene encodes a member of the TGF-beta (transforming growth factor-beta) superfamily of proteins. The encoded preproprotein is proteolytically processed to generate a subunit of the dimeric activin and inhibin protein complexes. These complexes activate and inhibit, respectively, follicle stimulating hormone secretion from the pituitary gland. The encoded protein also plays a role in eye, tooth and testis development. Elevated expression of this gene may be associated with cancer cachexia in human patients.
Form	Disulfide-linked homodimer
Bio-activity	Measured by its ability to induce hemoglobin expression in K562 human chronic myelogenous leukemia cells. The ED50 for this effect is 0.2-1.2 ng/mL. The specific activity of Recombinant Human/Mouse/Rat Activin A is >1000 units/mg, which is calibrated against the human Activin A WHO reference standard.

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Molecular Mass	Predicted Molecular Mass: 13 kDa (monomer) SDS-PAGE: 14 kDa, reducing conditions; 24 kDa, non-reducing conditions
N-terminal Sequence Analysis	Gly311-Leu-Glu-(Cys)-Asp-Gly-Lys-Val-Asn-Ile
Endotoxin	<0.10 EU/ µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE with silver staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.
Reconstitution	Reconstitute at 100-500 µg/mL in sterile 4 mM HCl.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	INHBA inhibin, beta A [Homo sapiens]
Official Symbol	INHBA
Synonyms	INHBA; inhibin, beta A; inhibin, beta A (activin A, activin AB alpha polypeptide); inhibin beta A chain; Inhibin, beta-1; activin beta-A chain; FSH-releasing protein; erythroid differentiation factor; erythroid differentiation protein; follicle-stimulating

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hormone-releasing protein; EDF; FRP;

Gene ID 3624

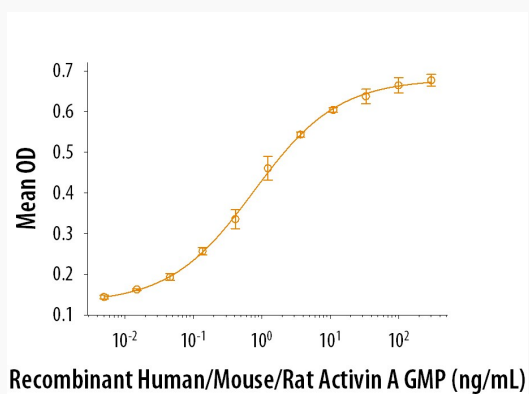
mRNA Refseq NM_002192

Protein Refseq NP_002183

MIM 147290

UniProt ID P08476

Bioactivity

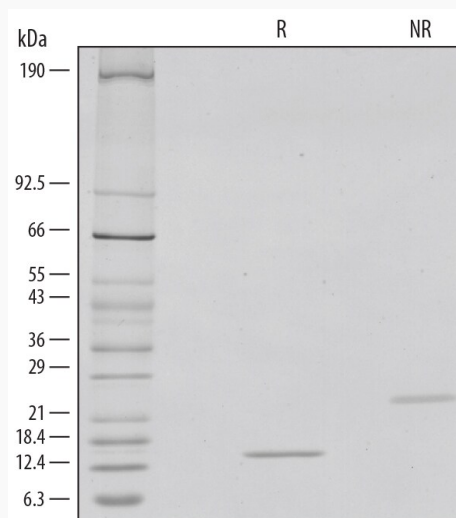


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SDS-PAGE



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