

Active Recombinant Human INHBB Protein (Gly293-Ala407), C-His tagged, Animal-free, Carrier-free

Cat. No. INHBB-185H Lot. No. (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | Recombinant Human INHBB Protein (Gly293-Ala407) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free. |
| Species | Human |
| Source | E.coli |
| ProteinLength | Gly293-Ala407 |
| Description | Activin B is the cytokine of the TGF-beta family, which is a 13 kDa protein containing 115 amino acid residues. Activin B has the wide variety of biological function including stem cell differentiation, inflammation, bone remodeling and neural development. They also have a role in regulation of FSH secretion. Activin B induces the phosphorylation of Smad which binds the smad binding element. |
| Form | Lyophilized |
| Bio-activity | Measure by its ability to induce hemoglobin expression in K562 cells. The ED50 for this effect is < 0.7 ng/mL. The specific activity of recombinant human Activin B is > 1.5 × 10 ⁶ IU/mg. |
| Molecular Mass | The protein has a calculated MW of 13.75 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis). |

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|-----------------------|---|
| Endotoxin | < 0.1 EU/μg of the protein by the LAL method. |
| Purity | >98% as determined by SDS-PAGE analysis. |
| Storage | This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles. |
| Storage Buffer | Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0. |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. |
| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | INHBB inhibin, beta B [Homo sapiens (human)] |
| Official Symbol | INHBB |
| Synonyms | INHBB; inhibin, beta B; inhibin, beta B (activin AB beta polypeptide); inhibin beta B chain; Inhibin, beta-2; activin beta-B chain; activin AB beta polypeptide; MGC157939; |
| Gene ID | 3625 |
| mRNA Refseq | NM_002193 |

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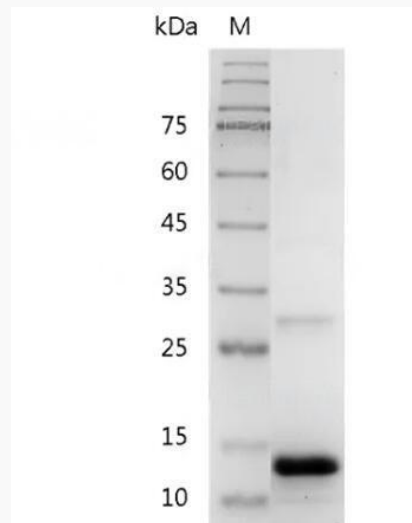
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Protein Refseq NP_002184

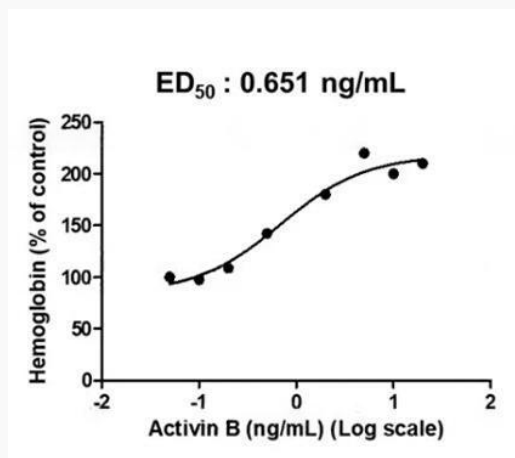
MIM 147390

UniProt ID P09529

**SDS-PAGE analysis
of recombinant
human Activin B.**



Activity



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Human Activin B, His Tag, E. coli (LDG064PHE) induced hemoglobin expression in K562 cells, with the ED50 at 0.651 ng/mL.

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