

## Active Recombinant Cynomolgus ACVR2B

**Cat. No.** ACVR2B-193C    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | A DNA sequence encoding the cynomolgus ACVR2B (EHH16502.1) (Ser28-Thr143) was expressed with six amino acids (LEVLFQ) at the C-terminus.                                                                                                          |
| <b>Species</b>          | Cynomolgus                                                                                                                                                                                                                                        |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | Ser28-Thr143                                                                                                                                                                                                                                      |
| <b>Form</b>             | Lyophilized from sterile PBS, pH7.4.                                                                                                                                                                                                              |
| <b>Bio-activity</b>     | Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 0.2-0.6 µg/mL in the presence of 10 ng/mL recombinant Activin A.                                             |
| <b>Molecular Mass</b>   | The recombinant cynomolgus ACVR2B is a disulfide-linked homodimer. The reduced monomer comprises 123 amino acids and has a calculated molecular mass of 14.1 KDa. The apparent molecular mass of the protein is approximately 34 KDa in SDS-PAGE. |
| <b>Endotoxin</b>        | < 1.0 eu per µg of the protein as determined by the LAL method.                                                                                                                                                                                   |
| <b>Purity</b>           | >95 % as determined by SDS-PAGE                                                                                                                                                                                                                   |
| <b>Stability</b>        | Samples are stable for up to twelve months from date of receipt at -70°C                                                                                                                                                                          |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b>      | Hardcopy of COA with reconstitution instruction is sent along with the products.                                                                    |
| <b>GENE INFORMATION</b>    |                                                                                                                                                     |
| <b>Gene Name</b>           | ACVR2B?activin A receptor, type IIB [?Macaca fascicularis?(crab-eating macaque) ]                                                                   |
| <b>Official Symbol</b>     | ACVR2B                                                                                                                                              |
| <b>Synonyms</b>            | ACVR2B; activin A receptor, type IIB; activin A receptor, type IIB                                                                                  |
| <b>Gene ID</b>             | 102118668                                                                                                                                           |
| <b>mRNA Refseq</b>         | XM_005546675                                                                                                                                        |
| <b>Protein Refseq</b>      | XP_005546732                                                                                                                                        |
| <b>Chromosome Location</b> | 2                                                                                                                                                   |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction; TGF-beta signaling pathway                                                                                  |

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