

## Active Recombinant Mouse Acvr1 protein(Met1-Glu123), His&hFc-tagged

**Cat. No.** Acvr1-775M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Mouse ACVR1 (NP_031420.2)(Met 1-Glu 123) was expressed in HEK293, fused with the C-terminal polyhistidine-tagged Fc region of Human IgG1 at the C-terminus.                                                                                                                                                |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | Met1-Glu123                                                                                                                                                                                                                                                                                                            |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                                                                                                         |
| <b>Bio-activity</b>     | Measure by its ability to bind with human BMP2 in a functional ELISA.                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | The secreted recombinant mouse ACVR1/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer comprises 351 amino acids with a predicted molecular mass of 40 kDa. As a result of glycosylation, it migrates as an approximately 45 kDa band in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | > 90 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                       |

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|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b> | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |
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## GENE INFORMATION

|                  |                                                   |
|------------------|---------------------------------------------------|
| <b>Gene Name</b> | Acvr1 activin A receptor, type 1 [ Mus musculus ] |
|------------------|---------------------------------------------------|

|                        |       |
|------------------------|-------|
| <b>Official Symbol</b> | Acvr1 |
|------------------------|-------|

|                 |                                    |
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| <b>Synonyms</b> | ACVR1; activin A receptor, type 1; |
|-----------------|------------------------------------|

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| <b>Gene ID</b> | 11478 |
|----------------|-------|

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