

## Recombinant Mouse Acp1 Protein, His-tagged

**Cat. No.** Acp1-44M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant Mouse Acp1 Protein (Met1-Tyr158) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Met1-Tyr158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Enables acid phosphatase activity. Predicted to be involved in protein dephosphorylation. Located in cytosol and sarcolemma. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; integumental system; and sensory organ. Human ortholog(s) of this gene implicated in several diseases, including attention deficit hyperactivity disorder; conduct disorder; diabetes mellitus (multiple); diabetic retinopathy; and obesity. Orthologous to human ACP1 (acid phosphatase 1). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 21.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>          | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b>   | PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                     |
| <b>Reconstitution</b>   | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                            |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | <a href="#">Acp1 acid phosphatase 1, soluble [ Mus musculus (house mouse) ]</a>                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b>  | <a href="#">Acp1</a>                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>         | ACP1; acid phosphatase 1, soluble; low molecular weight phosphotyrosine protein phosphatase; LMW-PTPase; low molecular weight cytosolic acid phosphatase; Acp-1; LMW-PTP; AI427468; 4632432E04Rik; MGC103115; MGC132904                                                                                                                      |
| <b>Gene ID</b>          | <a href="#">11431</a>                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | <a href="#">NM_001110239</a>                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>   | <a href="#">NP_001103709</a>                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>       | <a href="#">Q9D358</a>                                                                                                                                                                                                                                                                                                                       |

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