

## Recombinant Mouse Aga Protein, His-tagged

**Cat. No.** Aga-550M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Aga(Ser24~Gly260) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | Ser24~Gly260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | This gene encodes an amidase enzyme that participates in the breakdown of glycoproteins in the cell. The encoded protein undergoes proteolytic processing to generate a mature enzyme. Mice lacking the encoded protein exhibit accumulation of aspartylglucosamine along with lysosomal vacuolization, axonal swelling in the gracile nucleus and impaired neuromotor coordination. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. |
| <b>Form</b>             | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 28.6kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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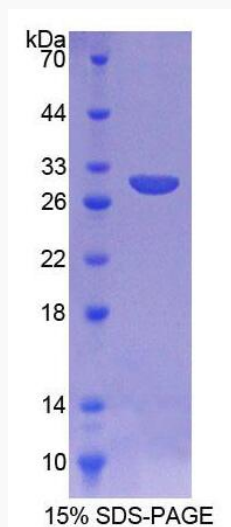
 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein                                                                                                                                                                                                                          |
| <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>Reconstitution</b>   | Reconstitute in PBS or others                                                                                                                                                                                                                                                                                                                |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | <a href="#">Aga aspartylglucosaminidase [ Mus musculus ]</a>                                                                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>  | <a href="#">Aga</a>                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>         | AGA; aspartylglucosaminidase; N(4)-(beta-N-acetylglucosaminy)-L-asparaginase; glycosylasparaginase; N4-(N-acetyl-beta-glucosaminy)-L-asparagine amidase; AW060726;                                                                                                                                                                           |
| <b>Gene ID</b>          | <a href="#">11593</a>                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | <a href="#">NM_001005847</a>                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>   | <a href="#">NP_001005847</a>                                                                                                                                                                                                                                                                                                                 |

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