

## Recombinant Mouse Aspa Protein, MYC/DDK-tagged

**Cat. No.** Aspa-531M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of full-length mouse aspartoacylase (Aspa), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | This gene encodes an enzyme that deacetylates N-acetyl-L-aspartic acid (NAA) in the brain to yield acetate and L-aspartate. In humans, alterations in neuronal NAA concentration are associated with many neurodegenerative diseases (decrease associated with epilepsy, multiple sclerosis, myotrophic lateral sclerosis, and Alzheimer's disease; increase associated with Canavan disease). In mouse, mutations in this gene, which cause accumulation of NAA, result in demyelination and spongy degeneration in the CNS and serve as a pathophysiological model for Canavan disease. |
| <b>Molecular Mass</b>   | 35.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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**Concentration** >50 µg/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** [Aspa aspartoacylase \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Aspa](#)

**Synonyms** Aspa; aspartoacylase; Acy2; nur7; Acy-2; aspartoacylase; aminoacylase-2; aspartoacylase (aminoacylase) 2; EC 3.5.1.15

**Gene ID** [11484](#)

**mRNA Refseq** [NM\\_023113](#)

**Protein Refseq** [NP\\_075602](#)

**UniProt ID** [Q8R3P0](#)

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