

Recombinant Mouse Asz1 Protein, Myc/DDK-tagged

Cat. No. Asz1-1756M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ankyrin repeat, SAM and basic leucine zipper domain containing 1 (Asz1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Its association with pi-bodies suggests a participation in the primary piRNAs metabolic process. Required prior to the pachytene stage to facilitate the production of multiple types of piRNAs, including those associated with repeats involved in regulation of retrotransposons. May act by mediating protein-protein interactions during germ cell maturation.
Molecular Mass	53 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
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	Asz1 ankyrin repeat, SAM and basic leucine zipper domain containing 1 [Mus musculus (house mouse)]
Official Symbol	Asz1
Synonyms	ASZ1; ankyrin repeat, SAM and basic leucine zipper domain containing 1; ankyrin repeat, SAM and basic leucine zipper domain-containing protein 1; germ cell-specific ankyrin, SAM and basic leucine zipper domain containing protein; germ cell-specific ankyrin, SAM and basic leucine zipper domain-containing protein; Gasz; ORF3; 4933400N19Rik
Gene ID	74068
mRNA Refseq	NM_023729
Protein Refseq	NP_076218
UniProt ID	Q8VD46