

## Recombinant Mouse Zfand1 Protein, Myc/DDK-tagged

**Cat. No.** Zfand1-7074M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of Mouse zinc finger, AN1-type domain 1 (Zfand1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | Plays a role in the regulation of cytoplasmic stress granules (SGs) turnover. SGs are dynamic and transient cytoplasmic ribonucleoprotein assemblies important for cellular protein homeostasis when protein production is suspended after acute exogenous stress. Associates with SGs and is involved in the efficient and specific arsenite-induced clearance process of SGs through the recruitment of the ubiquitin-selective ATPase VCP and the 26S proteasome. This process requires both complexes for efficient degradation of damaged ubiquitinated SG proteins during recovery from arsenite stress, and hence avoiding aberrant cytoplasmic SGs degradation via autophagy. |
| <b>Molecular Mass</b>   | 30.2 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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|----------------------|--------------------------------------------------|
| <b>Concentration</b> | >50 µg/mL as determined by microplate BCA method |
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| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
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## GENE INFORMATION

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|------------------|----------------------------------------------------------------------|
| <b>Gene Name</b> | Zfand1 zinc finger, AN1-type domain 1 [ Mus musculus (house mouse) ] |
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|                        |        |
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| <b>Official Symbol</b> | Zfand1 |
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| <b>Synonyms</b> | ZFAND1; zinc finger, AN1-type domain 1; AN1-type zinc finger protein 1; AW048890; 2310008M20Rik; MGC107161 |
|-----------------|------------------------------------------------------------------------------------------------------------|

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| <b>Gene ID</b> | 66361 |
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| <b>mRNA Refseq</b> | NM_025512 |
|--------------------|-----------|

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|-----------------------|-----------|
| <b>Protein Refseq</b> | NP_079788 |
|-----------------------|-----------|

|                   |        |
|-------------------|--------|
| <b>UniProt ID</b> | Q8BFR6 |
|-------------------|--------|

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