

## Recombinant Human AZIN1, GST-tagged

**Cat. No.** AZIN1-10090H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human AZIN1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | C-term-300a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Ornithine decarboxylase (ODC) catalyzes the conversion of ornithine to putrescine in the first and apparently rate-limiting step in polyamine biosynthesis. Ornithine decarboxylase antizymes play a role in the regulation of polyamine synthesis by binding to and inhibiting ornithine decarboxylase. The protein encoded by this gene is highly similar to ODC. It binds to ODC antizyme and stabilizes ODC, thus inhibiting antizyme-mediated ODC degradation. Two alternatively spliced transcript variants have been found for this gene. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                                                |

### GENE INFORMATION

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|                            |                                                                                                                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | AZIN1 antizyme inhibitor 1 [ Homo sapiens ]                                                                                                                                                                                                                                 |
| <b>Official Symbol</b>     | AZIN1                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>            | AZIN1; antizyme inhibitor 1; OAZIN, ornithine decarboxylase antizyme inhibitor; OAZI; ODC1L; ornithine decarboxylase 1 like; AZI; ornithine decarboxylase antizyme inhibitor; OAZIN; MGC691; MGC3832;                                                                       |
| <b>Gene ID</b>             | 51582                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>         | NM_015878                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_056962                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                 | 607909                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>          | O14977                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 8p22-q21.3                                                                                                                                                                                                                                                                  |
| <b>Pathway</b>             | Diurnally regulated genes with circadian orthologs, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Regulation of ornithine decarboxylase (ODC), organism-specific biosystem; |
| <b>Function</b>            | enzyme inhibitor activity; ornithine decarboxylase activator activity; ornithine decarboxylase inhibitor activity;                                                                                                                                                          |

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