

# Recombinant Human AZIN1 Protein (Ile5-Lys290), His tagged

**Cat. No.** AZIN1-0708H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human AZIN1 (Ile5-Lys290) fused with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | Ile5-Lys290                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Antizyme inhibitor (AZI) protein that positively regulates ornithine decarboxylase (ODC) activity and polyamine uptake. AZI is an enzymatically inactive ODC homolog that counteracts the negative effect of ODC antizymes (AZs) OAZ1, OAZ2 and OAZ3 on ODC activity by competing with ODC for antizyme-binding. Inhibits antizyme-dependent ODC degradation and releases ODC monomers from their inactive complex with antizymes, leading to formation of the catalytically active ODC homodimer and restoring polyamine production. |
| <b>Form</b>             | Lyophilized powder/frozen liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | 30.26 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | >90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Notes</b>            | For research use only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage</b>          | Use a manual defrost freezer and avoid repeated freeze thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                       |                                                                                                                        |
|-----------------------|------------------------------------------------------------------------------------------------------------------------|
|                       | Store at 2 to 8 centigrade for one week.<br>Store at -20 to -80 centigrade for twelve months from the date of receipt. |
| <b>Storage Buffer</b> | Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.                                                |
| <b>Reconstitution</b> | Reconstitute in sterile water for a stock solution.                                                                    |
| <b>Shipping</b>       | They are shipped out with dry ice/blue ice unless customers require otherwise.                                         |

## GENE INFORMATION

|                        |                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | AZIN1 antizyme inhibitor 1 [ Homo sapiens (human) ]                                                                                                                                                   |
| <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                                                                                                                                                                                                |

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