

## Recombinant Human OAZ1 Protein, His-tagged

Cat. No. OAZ1-2522H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human OAZ1 Protein (Phe95-Glu219) with a N-His tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** Phe95-Glu219

**Description** The protein encoded by this gene belongs to the ornithine decarboxylase antizyme family, which plays a role in cell growth and proliferation by regulating intracellular polyamine levels. Expression of antizymes requires +1 ribosomal frameshifting, which is enhanced by high levels of polyamines. Antizymes in turn bind to and inhibit ornithine decarboxylase (ODC), the key enzyme in polyamine biosynthesis; thus, completing the auto-regulatory circuit. This gene encodes antizyme 1, the first member of the antizyme family, that has broad tissue distribution, and negatively regulates intracellular polyamine levels by binding to and targeting ODC for degradation, as well as inhibiting polyamine uptake. Antizyme 1 mRNA contains two potential in-frame AUGs; and studies in rat suggest that alternative use of the two translation initiation sites results in N-terminally distinct protein isoforms with different subcellular localization. Alternatively spliced transcript variants have also been noted for this gene.

**Form** Freeze-dried powder

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<b>Molecular Mass</b>	Predicted Molecular Mass: 14.3 kDa Accurate Molecular Mass: 44 kDa
<b>Endotoxin</b>	<1.0 EU per 1g (determined by the LAL method).
<b>Purity</b>	> 97%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in PBS or others.

## GENE INFORMATION

<b>Gene Name</b>	OAZ1 ornithine decarboxylase antizyme 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	OAZ1
<b>Synonyms</b>	OAZ1; ornithine decarboxylase antizyme 1; OAZ; antizyme 1; AZI; MGC138338; ODC-Az;
<b>Gene ID</b>	4946

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mRNA Refseq	NM_004152
Protein Refseq	NP_004143
MIM	601579
UniProt ID	P54368

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