

Recombinant Human AZIN1 Protein, DDK-tagged

Cat. No. AZIN1-505H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human AZIN1, transcript variant 1, fused with DDK tag at C-terminal was expressed in Sf9 cells.

Species

Human

Source

Sf9 Cells

Description

The protein encoded by this gene belongs to the antizyme inhibitor family, which plays a role in cell growth and proliferation by maintaining polyamine homeostasis within the cell. Antizyme inhibitors are homologs of ornithine decarboxylase (ODC, the key enzyme in polyamine biosynthesis) that have lost the ability to decarboxylase ornithine; however, retain the ability to bind to antizymes. Antizymes negatively regulate intracellular polyamine levels by binding to ODC and targeting it for degradation, as well as by inhibiting polyamine uptake. Antizyme inhibitors function as positive regulators of polyamine levels by sequestering antizymes and neutralizing their effect. This gene encodes antizyme inhibitor 1, the first member of this gene family that is ubiquitously expressed, and is localized in the nucleus and cytoplasm. Overexpression of antizyme inhibitor 1 gene has been associated with increased proliferation, cellular transformation and tumorigenesis. Gene knockout studies showed that homozygous mutant mice lacking functional antizyme inhibitor 1 gene died at birth with abnormal liver morphology. RNA editing of this gene, predominantly in the liver tissue, has been linked to the progression of hepatocellular carcinoma. Alternatively spliced transcript variants have been described for this gene.

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Form	50mM Tris-HCl, pH8.0, 100mM glycine, 10% glycerol.
Molecular Mass	49.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	AZIN1 antizyme inhibitor 1 [Homo sapiens]
Official Symbol	AZIN1
Synonyms	AZIN1; antizyme inhibitor 1; OAZIN, ornithine decarboxylase antizyme inhibitor; OAZI; ODC1L; ornithine decarboxylase 1 like; AZI; ornithine decarboxylase antizyme inhibitor; OAZIN; MGC691; MGC3832;
Gene ID	51582
mRNA Refseq	NM_015878
Protein Refseq	NP_056962
MIM	607909
UniProt ID	O14977

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