

Recombinant Human AZIN1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AZIN1-3628H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

AZIN1 MS Standard C13 and N15-labeled recombinant protein (NP_680479) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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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Molecular Mass	49.5 kDa
AA Sequence	MKGFIDDANYSVGLLDEGTNLGNVIDNYVYEHTLTGKNAFFVGD LGKIVKKHSQWQ NVVAQIKPFYTVKCNSAPAVLEILAAALGTGFACSSKNEMALVQELGVPPENIIYISPCK QVSQIKYAAKVGVNILTC DNEIELKKIARNHPNAKVLLHIATEDNIGGEEGNMKFGTTL KNCRHLLCAKELDVQIIGVKFHVSSACKESQVYVHALSDARCVFDMAGEIGFTMMNM LDIGGGFTGTEFQLEEVNHVISPLLDIYFPEGSGVKIIEPGSYVSSAFTLAVNIIAKK VVENDKFPSPGVEKTGSDEPAFMYYMNDGVYGSFASKLSEDLNTIPEVHKKYKEDEP LFTSSLWGPSCDELDQIVESCLLPELNVGDWLIFDNMGADSFHEPSAFNDFQRPAIY YMMSFSDWYEMQDAGITSDSMKNFFFPVPSIQLSQEDSFSAEATRTRPLEQKLIS EEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	AZIN1 antizyme inhibitor 1 [Homo sapiens (human)]
Official Symbol	AZIN1
Synonyms	AZIN1; antizyme inhibitor 1; OAZIN, ornithine decarboxylase antizyme inhibitor; OAZI; ODC1L; ornithine decarboxylase 1 like; AZI; ornithine decarboxylase antizyme

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inhibitor; OAZIN; MGC691; MGC3832;

Gene ID [51582](#)

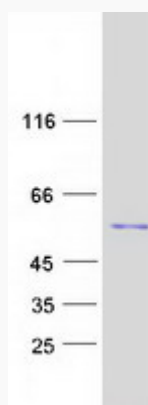
mRNA Refseq [NM_148174](#)

Protein Refseq [NP_680479](#)

MIM [607909](#)

UniProt ID [O14977](#)

SDS-PAGE



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