Antizyme Inhibitor 1 (AZIN1) Pongo Abelii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Antizyme inhibitor 1 (AZIN1), Recombinant Protein
Full Product Name	Recombinant Pongo abelii Antizyme inhibitor 1 (AZIN1)
Product Gene Name	AZIN1 recombinant protein
Product Synonym Gene Name	AZIN1
Sequence	MKGFIDDVDY SVGLLDEGTN LGNVIDNYVY EHTLTGKNAF FVGDLGKIVK KHSQWQNVVA QIKPFYTVKC NSAPAVLEIL AALGTGFACS SKNEMALVQE LGVPPENIIY ISPCKQVSQI KYAAKVGVNI MTCDNEIELK KIARNHPNAK VLLHIATEDN IGGEEGNMKF GTTLKNCRHL LECAKELDVQ IIGVKFHVSS ACKESQVYVH ALSDARCVFD MAGEIGFTMN MLDIGGGFTG TEFQLEEVNH VISPLLDVYF PEGSGVKIIS EPGSYYVSSA FTLAVNIIAK KVVENDKFPS GVEKTGSDEP AFMYYMNDGV YGSFASKLSE DLNTIPEVHK KYKEDEPLFT SSLWGPSCDE LDQIVESCLL PELNVGDWLI FDNMGADSFH EPSAFNDFQR PAIYYMMSFS DWYEMQDAGI TSDSMMKNFF FVPSCIQLSQ EDSFSAEA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	49,568 Da
Sequence Positions	1-448, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q5R7K3
Species	Pongo abelii (Sumatran orangutan)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for AZIN1 recombinant protein	MBS1404724 is a recombinant protein targeting AZIN1. Also known as Recombinant Pongo abelii Antizyme inhibitor 1 (AZIN1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of AZIN1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AZIN1. It may not necessarily be applicable to this product.

NCBI GI #	683523909
NCBI GeneID	100173300
NCBI Accession #	NP_001126321.2
UniProt Primary Accession #	Q5R7K3

UniProt Related Accession #	Q5R7K3
GenBank Nucleotide #	NM_001132849.2
NCBI Official Full Name	antizyme inhibitor 1
NCBI Official Symbol	AZIN1
UniProt Protein Name	Antizyme inhibitor 1
UniProt Synonym Protein Names	Ornithine decarboxylase antizyme inhibitor
Protein Family	Antizyme inhibitor
UniProt Gene Name	AZIN1
UniProt Synonym Gene Names	AZI
NCBI Protein Information	antizyme inhibitor 1
NCBI Summary for AZIN1	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. [provided by RefSeq, Sep 2014]
UniProt Comments for AZIN1	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.
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