

Recombinant Rat Oaz3 Protein, His-tagged

Cat. No. Oaz3-1879R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Oaz3 Protein (Leu1-Ser86) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Leu1-Ser86

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 3, the third member of the antizyme family. Like antizymes 1 and 2, antizyme 3 inhibits ODC activity and polyamine uptake; however, it does not stimulate ODC degradation. Also, while antizymes 1 and 2 have broad tissue distribution, expression of antizyme 3 is restricted to haploid germ cells in testis, suggesting a distinct role for this antizyme in spermiogenesis. Antizyme 3 gene knockout studies showed that homozygous mutant male mice were infertile, and indicated the likely role of this antizyme in the formation of a rigid connection between the sperm head and tail during spermatogenesis. This transcript initiates translation from a non-AUG (CUG) codon that is highly conserved among the antizyme 3 orthologs.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 14 kDa Accurate Molecular Mass: 14 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.
GENE INFORMATION	
Gene Name	Oaz3 ornithine decarboxylase antizyme 3 [Rattus norvegicus (Norway rat)]
Official Symbol	Oaz3
Synonyms	Oaz3; ornithine decarboxylase antizyme 3; Az3; Oaz-t; ODC-Az 3; ornithine decarboxylase antizyme 3; antizyme 3
Gene ID	689588

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mRNA Refseq [NM_001101018](#)

Protein Refseq [NP_001094488](#)

UniProt ID [A1BPI0](#)

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