Creative Enzymes®

single-stranded DNA cytosine deaminase

Cat. No. EXWM-4566

Lot. No. (See product label)

Introduction

Description	The enzyme exclusively catalyses deamination of cytosine in single-stranded DNA. It preferentially deaminates five-nucleotide bubbles. The optimal target consists of a single-stranded NWRCN motif (W = A or T, R = A or G). The enzyme initiates antibody diversification processes by deaminating immunoglobulin sequences.
Synonyms	AID; activation-induced deaminase; AICDA (gene name); activation-induced cytidine deaminase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.5.4.38
Reaction	cytosine in single-stranded DNA + H2O = uracil in single-stranded DNA + NH3
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.