

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.