Creative Enzymes®

DNA oxidative demethylase

Cat. No. EXWM-0651

Lot. No. (See product label)

Introduction

Description	Contains iron; activity is slightly stimulated by ascorbate. Catalyses oxidative demethylation of the DNA base lesions N1-methyladenine, N3-methylcytosine, N1-methylguanine, and N3-methylthymine. It works better on single-stranded DNA (ssDNA) and is capable of repairing damaged bases in RNA.
Synonyms	alkylated DNA repair protein; α-ketoglutarate-dependent dioxygenase ABH1; alkB (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.11.33
Reaction	DNA-base-CH3 + 2-oxoglutarate + O2 = DNA-base + formaldehyde + succinate + CO2
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 ℃.