Creative Enzymes®

T4 β-glucosyltransferase, Recombinant

Cat. No. NATE-0773

Lot. No. (See product label)

Introduction

Description In enzymology, a DNA beta-glucosyltransferase is an enzyme that catalyzes the chemical reaction in which a beta-D-glucosyl residue is transferred from UDP-glucose to an hydroxymethylcytosine residue in DNA. It is analogous to the enzyme DNA alpha-glucosyltransferase. This enzyme belongs to the family of glycosyltransferases, specifically the hexosyltransferases.

Applications Useful for the differentiation of hydroxymethylcytosine (HMC) from methylcytosine in DNA, via glucosylating HMC and protecting HMC from endonuclease cleavage.

Synonyms T4 Beta-glucosyltransferase; DNA beta-glucosyltransferase; T4-HMC-beta-glucosyl transferase; T4-beta-glucosyl transferase; T4 phage beta-glucosyltransferase; UDP glucose-DNA beta-glucosyltransferase; uridine diphosphoglucose-deoxyribonucleate beta-glucosyltransferase

Product Information

Source E. coli

Form aqueous solution, Formulated in 200 mM imidazole and 20% glycerol.

Molecular Weight mol wt 41.6 kDa

Purity > 83% (SDS-PAGE)

Storage and Shipping Information

Storage −70°C