

Title (en)

METHOD FOR IDENTIFYING MISMATCH REPAIR GLYCOSYLASE REACTIVE SITES, COMPOUND AND USES THEREOF

Title (de)

VEFRAHREN ZUR IDENTIFIZIERUNG REAKTIVER SITES FÜR GLYKOSYLASE ZUR REPARATUR VON FEHLBASENPAARUNGEN, WIRKSTOFF, SOWIE VERWENDUNGEN DERSELBEN

Title (fr)

PROCEDE PERMETTANT D'IDENTIFIER LES SITES REACTIFS DES GLYCOSYLADES DE REPARATION DES MESAPPARIEMENTS, COMPOSE ET UTILISATIONS DE CE DERNIER

Publication

EP 1060266 A1 20001220 (EN)

Application

EP 99908354 A 19990223

Priority

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Abstract (en)

[origin: WO9942622A1] The present application discloses a method of identifying mutations in a target DNA sequence. The method involves: (a) hybridizing the target DNA sequence with a control DNA sequence wherein said control DNA sequence is the wild-type DNA sequence corresponding to the target DNA sequence to create a duplex; (b) treating the duplex to remove any spontaneous aldehydes; (c) reacting the duplex with a repair glycosylase to convert any mismatched sites in the duplex to reactive sites containing an aldehyde-containing abasic site; (d) reacting the duplex with a compound of the formula X-Z-Y, wherein X is a detectable moiety, Y is NHNH₂, O-NH₂ or NH₂, and Z is a hydrocarbon, alkylhydroxy, alkylethoxy, alkylester, alkylether, alkylamide or alkylamine, wherein Z may be substituted or unsubstituted; and wherein Z may contain a cleavable group; for a sufficient time and under conditions to covalently bind to the reactive sites; (e) detecting the bound compound to identify sites of mismatches; (f) determining where the mismatch occurs; and (g) determining whether the mismatch is a mutation or polymorphisms.

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C12Q 1/68; C07H 21/04

IPC 8 full level

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