

Title (en)

NADH-DEPENDENT CYTOCHROME B5 REDUCTASE AS A TARGET FOR HERBICIDES

Title (de)

NADH-ABHÄNGIGE CYTOCHROM B5 REDUKTASE ALS TARGET FÜR HERBIZIDE

Title (fr)

CYTOCHROME B5 REDUCTASE NADH-DEPENDANTE UTILISEE COMME CIBLE POUR HERBICIDES

Publication

EP 1525304 A1 20050427 (DE)

Application

EP 03764982 A 20030714

Priority

- DE 10232778 A 20020718
- EP 0307590 W 20030714

Abstract (en)

[origin: WO2004009806A1] The invention relates to the use of a polypeptide with the biological activity of an NADH-dependent cytochrome b5 reductase (E.C. 1.6.2.2), which when absent causes growth retardation and chlorotic foliage and is coded by the nucleic acid sequence SEQ ID NO:1 or functional equivalents of the aforementioned nucleic acid sequence, as a target for herbicides. Within this scope, functional equivalents of SEQ ID NO:1 are provided. The invention also relates to the use of the polypeptide with the biological activity of an NADH-dependent cytochrome b5 reductase in a method for identifying compounds with a herbicidal action, which inhibit NADH-dependent cytochrome b5 reductase. The invention further relates to the use of the compounds, which have been identified by the method, as herbicides.

IPC 1-7

C12N 9/02

IPC 8 full level

C12N 9/02 (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP US)

C12N 9/004 (2013.01 - EP US); **C12N 15/8274** (2013.01 - EP US)

Citation (search report)

See references of WO 2004009806A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004009806 A1 20040129; AU 2003250050 A1 20040209; EP 1525304 A1 20050427; US 2006160700 A1 20060720

DOCDB simple family (application)

EP 0307590 W 20030714; AU 2003250050 A 20030714; EP 03764982 A 20030714; US 52158405 A 20050118