

Title (en)  
AGENT FOR STIMULATING ANIMAL CELL DIVISION.

Title (de)  
MITTEL ZUR STIMULIERUNG DER TEILUNGSAKTIVITÄT TIERISCHER ZELLEN.

Title (fr)  
STIMULANT DE LA DIVISION DE CELLULES ANIMALES.

Publication  
**EP 0572641 A1 19931208 (DE)**

Application  
**EP 93902113 A 19921217**

Priority  
DE 4142452 A 19911218

Abstract (en)  
[origin: DE4142452A1] An agent for stimulating animal and human cell division has applications in the areas of biological-medical fundamental research, in biotechnology and in the pharmaceutical industry. The disclosed agent is characterized by nucleotide sequences with a complementary (anti-sense) sequence to specific domains of the mRNA of tumor suppressor genes or other genes having a negative effect on cell division. Synthetic oligonucleotides having at least 15 nucleotides, preferably 18 to 21 nucleotides, in length are preferably used as a nucleotide sequence. An amount of the agent comprised between 5 and 30  $\mu$  M is added to the culture medium and its concentration should remain essentially constant during cultivation.

Abstract (fr)  
Un stimulant de la division de cellules animales et humaines a des applications dans les domaines de la recherche fondamentale biomédicale, en biotechnologie et dans l'industrie pharmaceutique. Ce stimulant se caractérise par des séquences de nucléotides à séquence complémentaire (anti-sens) de domaines déterminés de l'ARNm de gènes suppresseurs de tumeurs ou d'autres gènes ayant un effet négatif sur la division cellulaire. En tant que séquence de nucléotides on utilise de préférence des oligonucléotides synthétiques ayant au moins 15 nucléotides, de préférence 18 à 21 nucléotides, de longueur. On ajoute au milieu de culture une quantité de stimulant comprise entre 5 et 30  $\mu$ M, sa concentration devant rester essentiellement constante pendant la culture.

IPC 1-7  
**C12N 15/11**; **C12N 5/10**; **C12N 5/06**; **A61K 48/00**

IPC 8 full level  
**C07K 14/47** (2006.01); **C07K 14/705** (2006.01); **C07K 14/82** (2006.01); **C12N 15/113** (2010.01); **A61K 38/00** (2006.01)

CPC (source: EP)  
**C07K 14/4705** (2013.01); **C07K 14/4746** (2013.01); **C07K 14/705** (2013.01); **C07K 14/82** (2013.01); **C12N 15/1135** (2013.01); **A61K 38/00** (2013.01); **C12N 2310/315** (2013.01)

Citation (search report)  
See references of WO 9313204A2

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**DE 4142452 A1 19930624**; EP 0572641 A1 19931208; WO 9313204 A2 19930708; WO 9313204 A3 19930805

DOCDB simple family (application)  
**DE 4142452 A 19911218**; EP 9202929 W 19921217; EP 93902113 A 19921217