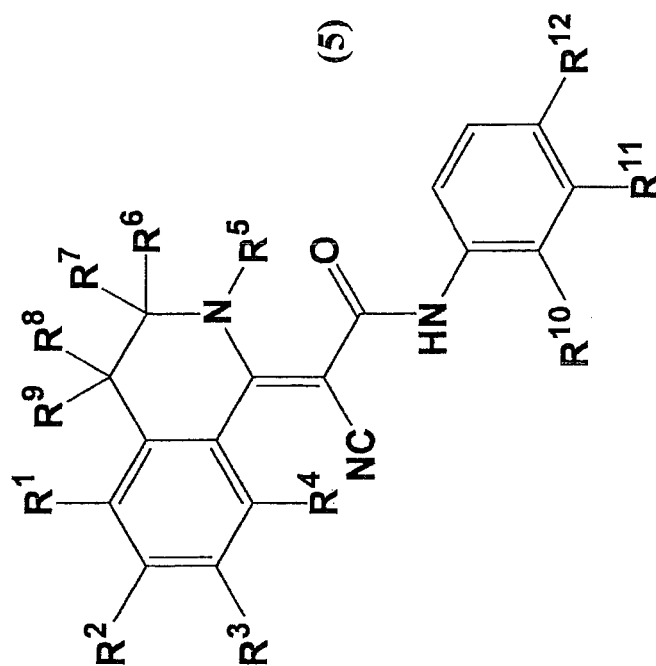
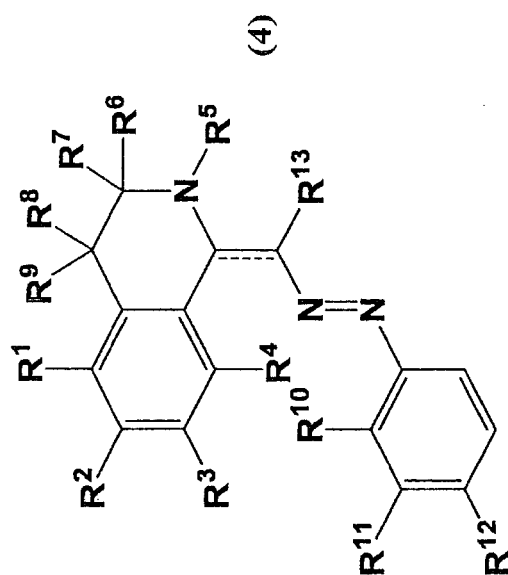


Fig. 1



Name of compound		R ¹	R ²	R ³	R ⁴	R ⁵	R ⁶	R ⁷	R ⁸	R ⁹	R ¹⁰	R ¹¹	R ¹²
A	2-cyano-2-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-N-p-tolyl-acetamide	H	H	H	H	H	Me	Me	H	H	H	H	Me

Fig. 2



	Name of compounds	R ¹	R ²	R ³	R ⁴	R ⁵	R ⁶	R ⁷	R ⁸	R ⁹	R ¹⁰	R ¹¹	R ¹²	R ¹³
B	2-(4-acetyl-phenylazo)-2-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-acetamide	H	H	H	H	H	Me	Me	H	H	H	H	Ac	CONH ₂
C	2-(3-chloro-phenylazo)-2-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-acetamide	H	H	H	H	H	Me	Me	H	H	H	Cl	H	CONH ₂
D	2-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-2-(3-methoxyphenylazo)-acetamide	H	H	H	H	H	Me	Me	H	H	H	OMe	H	CONH ₂
E	2-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-2-(3-nitro-phenylazo)-acetamide	H	H	H	H	H	Me	Me	H	H	H	NO ₂	H	CONH ₂
F	2-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-2-(4-methoxyphenylazo)-acetamide	H	H	H	H	H	Me	Me	H	H	H	H	OMe	CONH ₂

Fig. 3

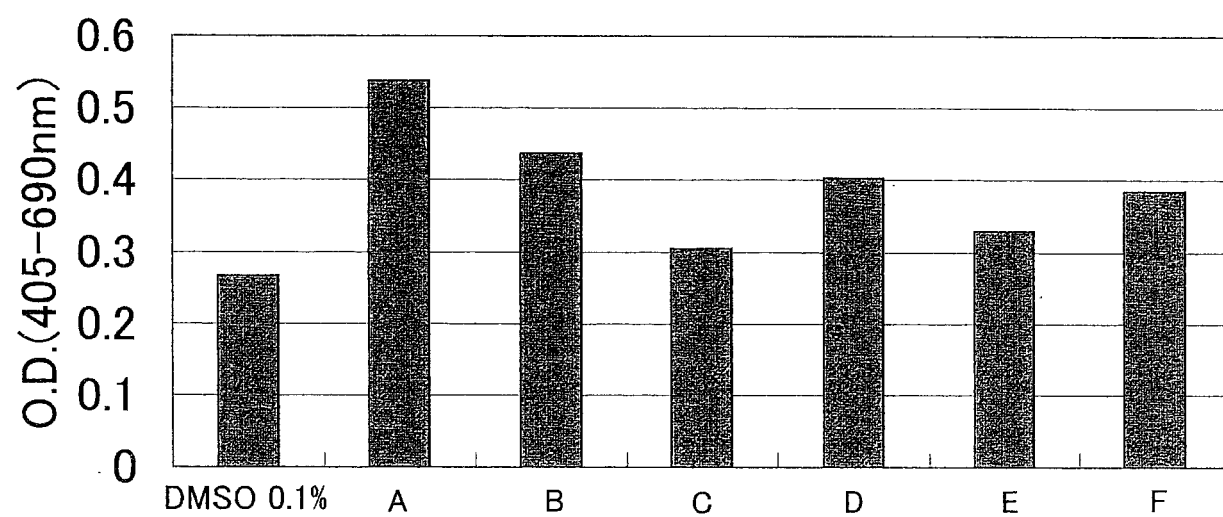
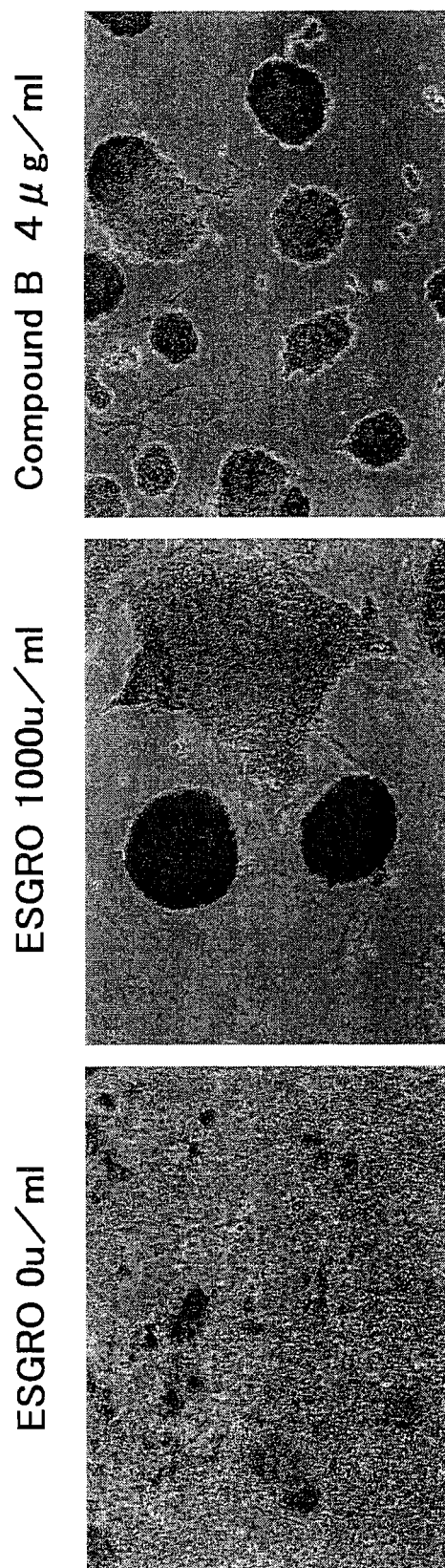


Fig. 4



Microscopic magnifying power: x 100

Fig. 5

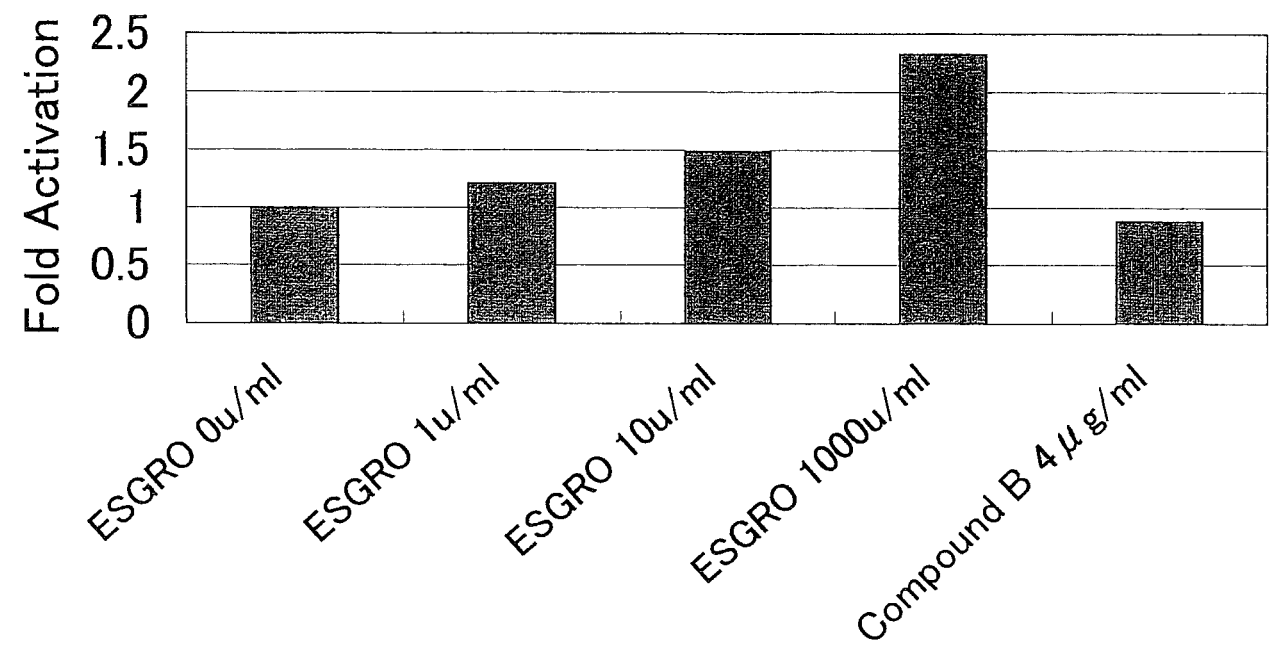


Fig. 6

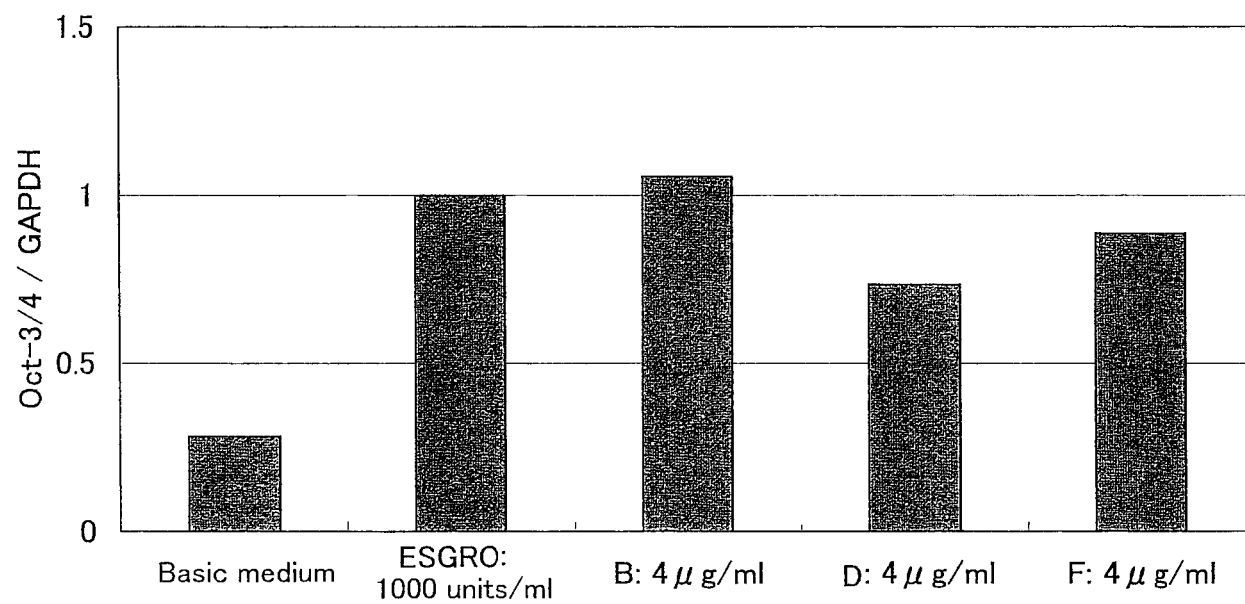


Fig. 7

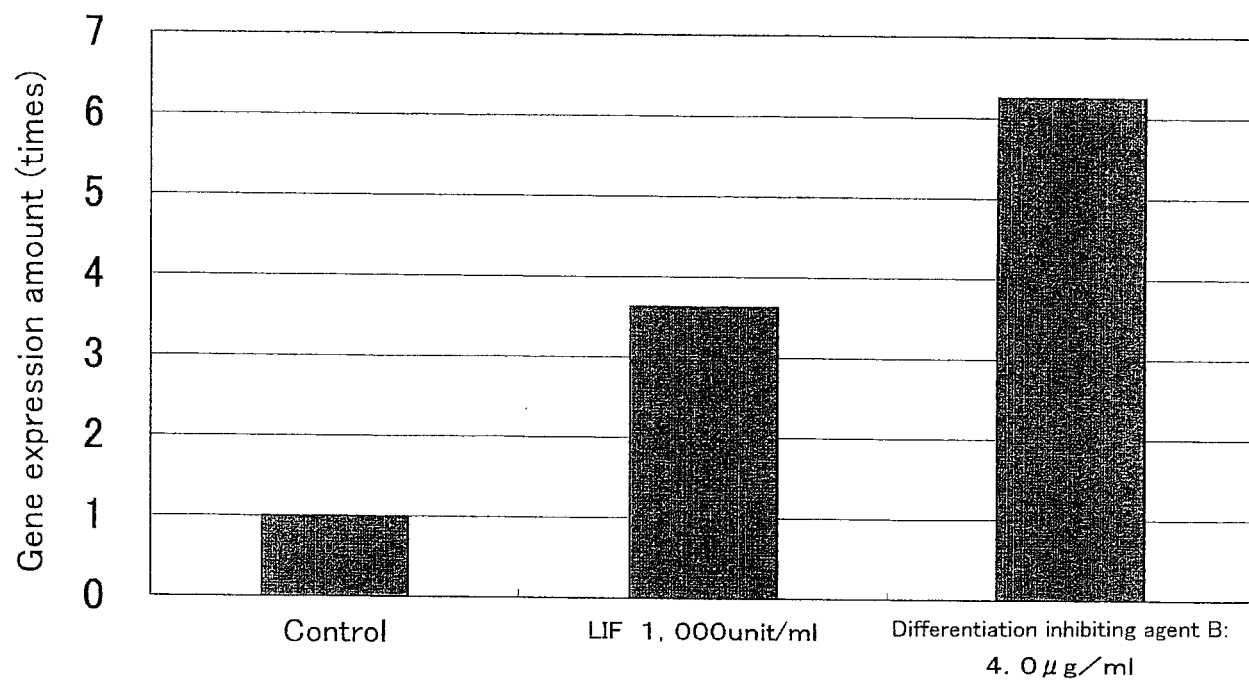


Fig. 8

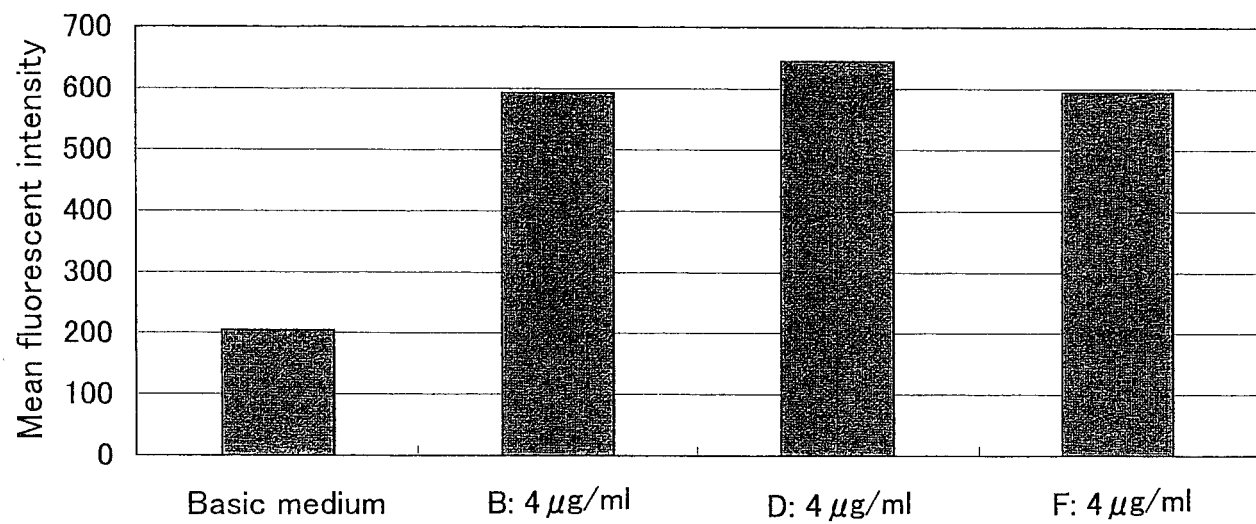
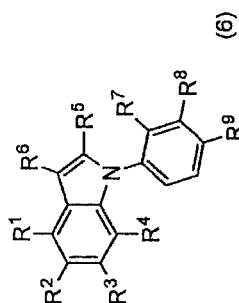


Fig. 9



	R ¹	R ²	R ³	R ⁴	R ⁵	R ⁶	R ⁷	R ⁸	R ⁹
a	-H	-H	-OH	-H	-Me	-NO ₂	-H	-H	-H
b	-H	-H	-OH	-H	-Me	-NO ₂	-H	-H	-OMe
c	-H	-H	-OH	-H	-Me	-NO ₂	-H	-H	-Me
d	-H	-H	-OH	-H	-CH=CHNH-p-methoxybenzene	-NO ₂	-H	-H	-Me
e	-H	-H	-OH	-H	-Me	-NO ₂	-OMe	-H	-H
f	-H	-H	-OH	-CH ₂ NMe ₂	-CH=CHNMe ₂	-NO ₂	-H	-H	-Me
g	-H	-H	-OH	-CH ₂ -piperidino	-Me	-NO ₂	-H	-H	-OMe
h	-H	-H	-OH	-CH ₂ -morpholino	-CH=CHNMe ₂	-NO ₂	-H	-H	-OMe
i	-H	-H	-OH	-CH ₂ NHCH ₂ CH ₂ CH ₂ OH	-Me	-NO ₂	-H	-H	-OMe
j	-H	-H	-OH	-CH ₂ NMe ₂	-CH=CHNMe ₂	-NO ₂	-H	-H	-OMe
k	-H	-H	-OH	-CH ₂ NEt ₂	-Me	-NO ₂	-H	-H	-OMe
l	-H	-H	-OH	-CH ₂ NMe ₂	-Me	-NO ₂	-H	-H	-Me
m	-H	-H	-OH	-CH ₂ -piperidino	-Me	-NO ₂	-H	-H	-OMe
n	-H	-H	-OAc	-CH ₂ OAc	-Me	-NO ₂	-H	-H	-Me
o	-H	-H	-OH	-CH ₂ -piperidino	-CH=CHNMe ₂	-NO ₂	-H	-H	-OMe

Fig. 10

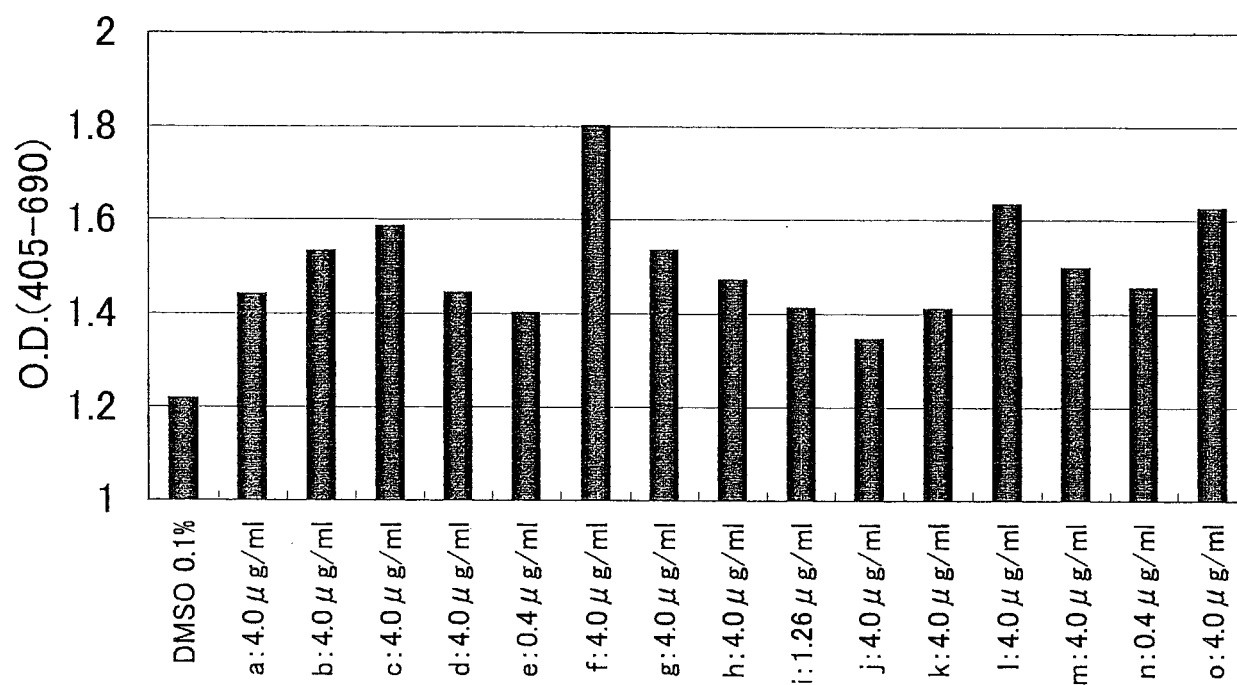


Fig. 11

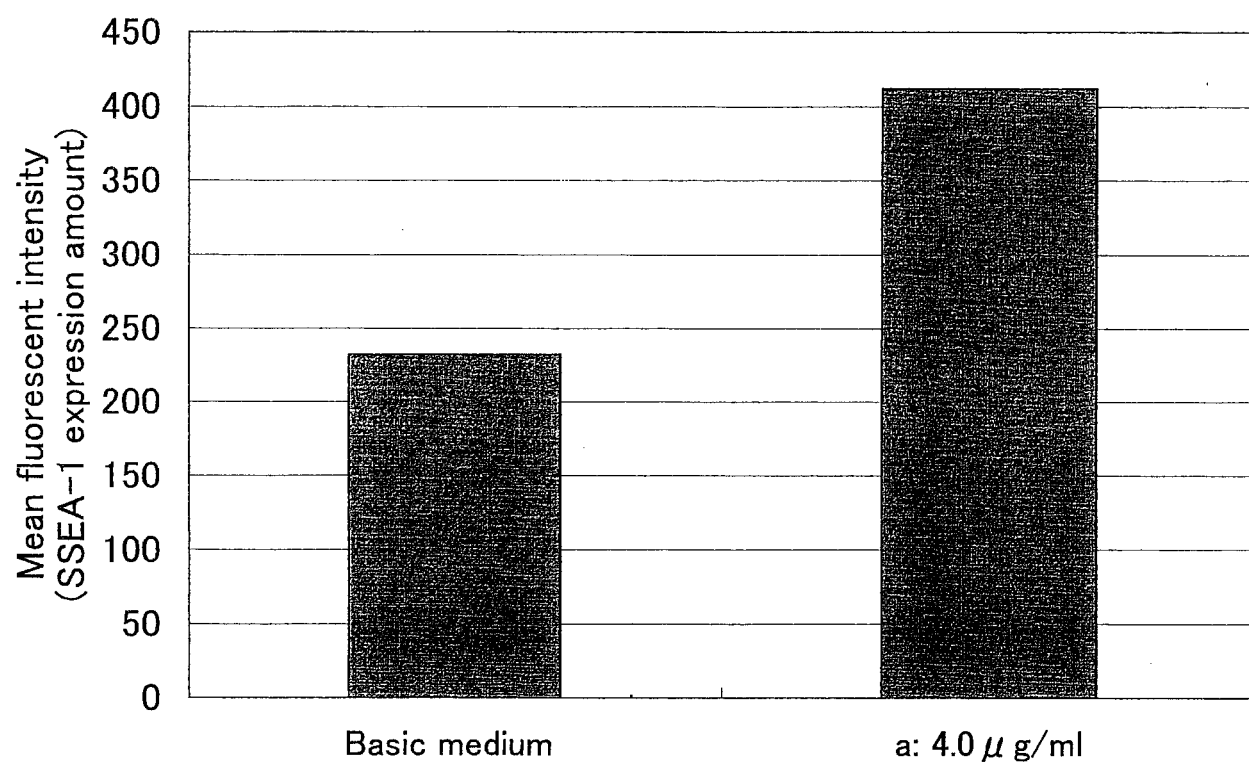


Fig. 12

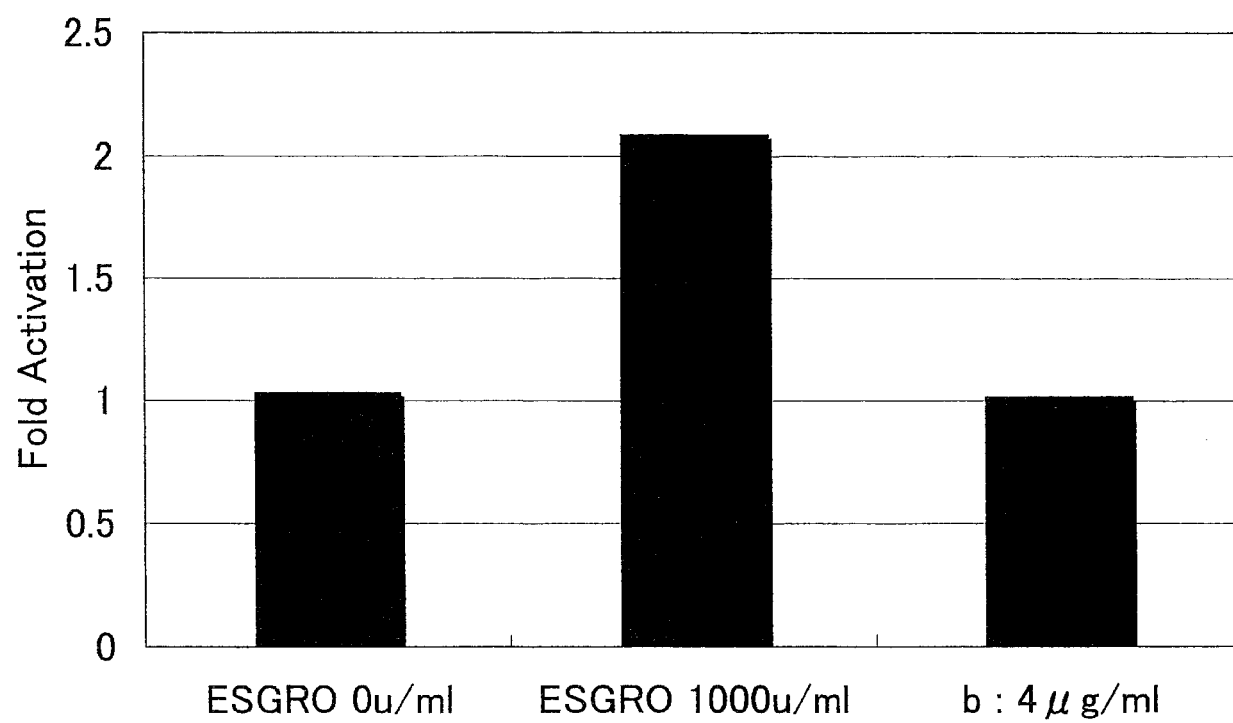


Fig. 13

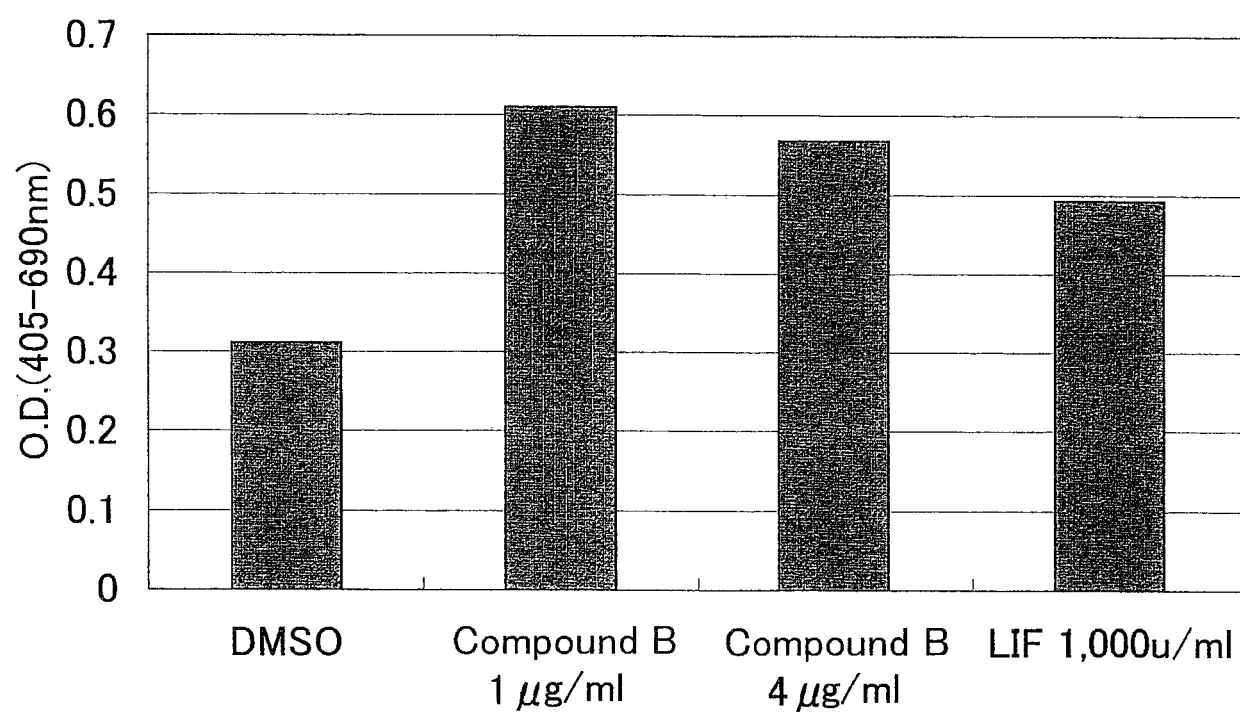


Fig. 14

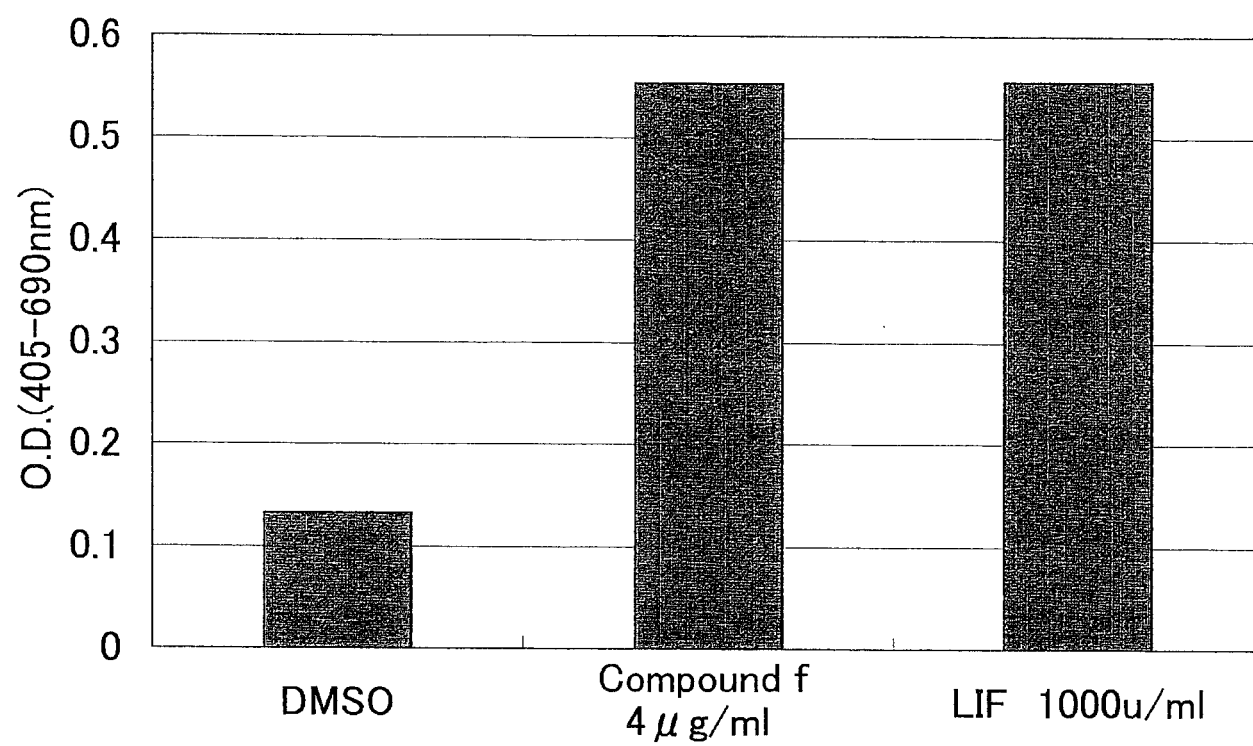


Fig. 15

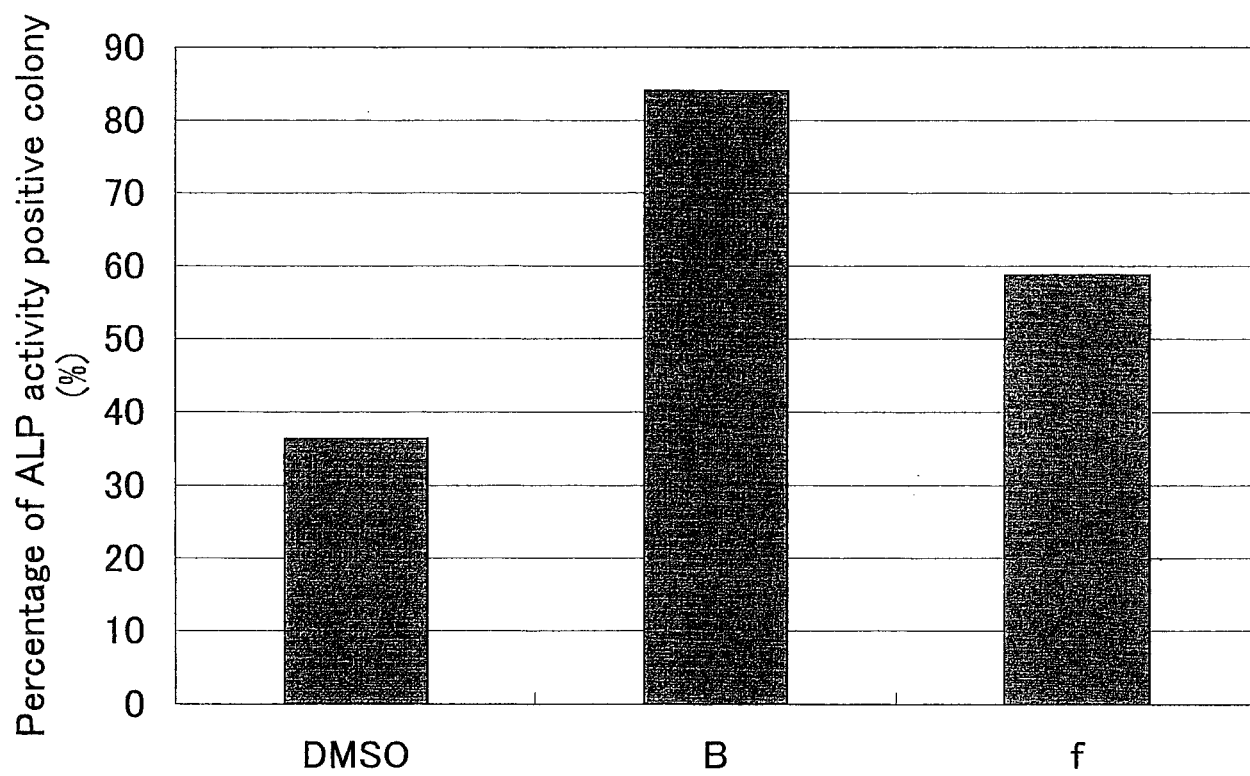
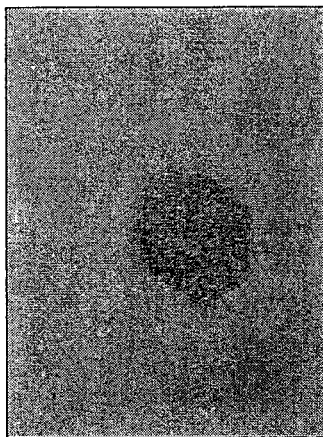
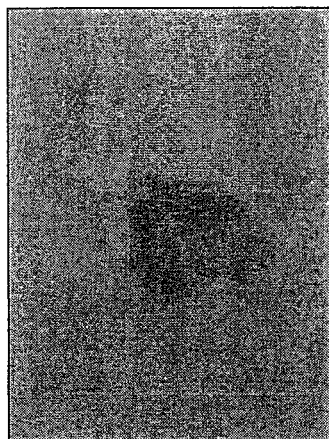


Fig. 16

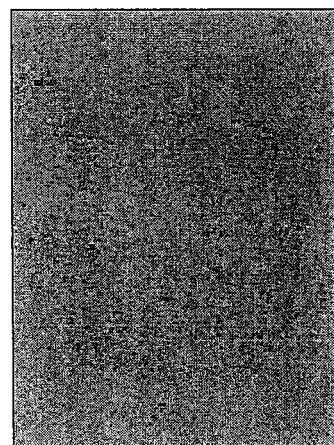
Compound f 1 μ g/ml
6-bromoindirubin-3-oxim:0.7 μ g/ml



Compound f 4 μ g/ml

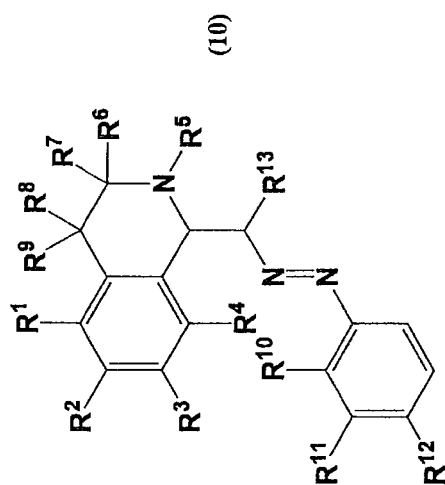


DMSO 0.1%



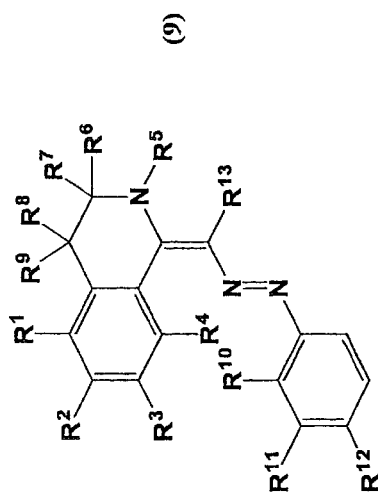
Microscopic magnifying power: x 40

Fig. 17



	Name of compound	R ¹	R ²	R ³	R ⁴	R ⁵	R ⁶	R ⁷	R ⁸	R ⁹	R ¹⁰	R ¹¹	R ¹²	R ¹³
①	2-(4-acetyl-phenylazo)-2-(3,3-dimethyl-1,2,3,4-tetrahydro-isoquinoline-1-yl)-acetamide	H	H	H	H	H	Me	Me	H	H	H	H	Ac	CONH ₂

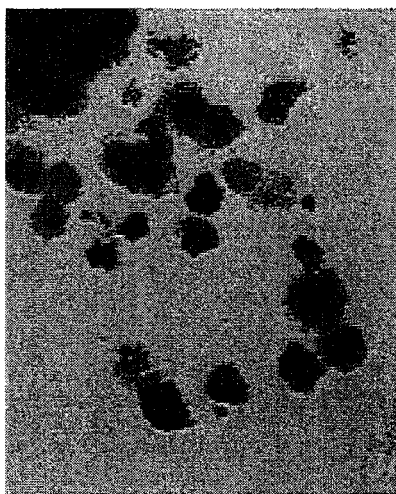
Fig. 18



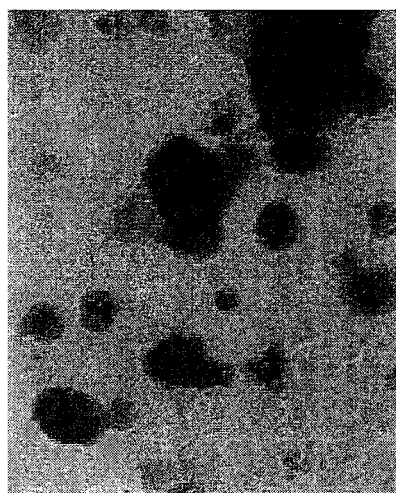
	Name of compounds	R ¹	R ²	R ³	R ⁴	R ⁵	R ⁶	R ⁷	R ⁸	R ⁹	R ¹⁰	R ¹¹	R ¹²	R ¹³
②	(4-acetyl-phenylazo)-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-acetic acid ethyl ester	H	H	H	H	H	Me	Me	H	H	H	H	Ac	CO ₂ Et
③	(4-acetyl-phenylazo)-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-acetone	H	H	H	H	H	Me	Me	H	H	H	H	Ac	CN
④	2-(3-acetyl-phenylazo)-2-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-acetamide	H	H	H	H	H	Me	Me	H	H	H	Ac	H	CONH ₂
⑤	2-(4-acetyl-phenylazo)-2-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-N-methyl-acetamide	H	H	H	H	H	Me	Me	H	H	H	H	Ac	CONHMe
⑥	2-(4-acetyl-phenylazo)-2-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-N,N-dimethyl-acetamide	H	H	H	H	H	Me	Me	H	H	H	H	Ac	CONMe ₂
⑦	2-(4-acetyl-phenylazo)-2-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-N-phenyl-acetamide	H	H	H	H	H	Me	Me	H	H	H	H	Ac	CONHPh
⑧	(4-acetyl-phenylazo)-(3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-acid	H	H	H	H	H	Me	Me	H	H	H	H	Ac	CO ₂ H
⑨	2-(4-acetyl-phenylazo)-2-(2,3,3-trimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-acetamide	H	H	H	H	Me	Me	Me	H	H	H	H	Ac	CONH ₂
⑩	2-(2-acetyl-3,3-dimethyl-3,4-dihydro-2H-isoquinoline-1-ylidene)-2-(4-acetyl-phenylazo)-acetamide	H	H	H	H	Ac	Me	Me	H	H	H	H	Ac	CONH ₂

Fig. 19

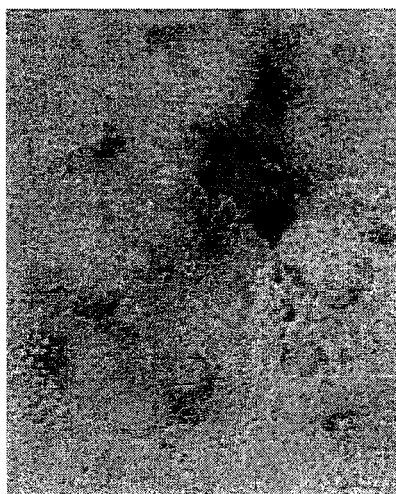
Compound ④ 4 μ g/ml



ESGRO 1000u/ml



ESGRO 0u/ml



Microscopic magnifying power: x 200

SEQUENCE LISTING

<110> ASAHI KASEI KABUSHIKI KAISHA

<120> Cell differentiation suppressing agent, method of culturing cells using the same, culture solution, and cultured cells

<130> A41363A

<160> 6

<210> 1

<211> 24

<212> DNA

<213>Artificial Sequence

<220>

<223> The forward primer used for amplifying murine Oct-3/4 gene by PCR

<400> 1

ggcgttctct ttggaaaggt gttc 24

<210> 2

<211> 20

<212> DNA

<213>Artificial Sequence

<220>

<223> The reverse primer used for amplifying murine Oct-3/4 gene by PCR

<400> 2

ctcgaaccac atccttctct 20

<210> 3

<211> 22

<212> DNA

<213>Artificial Sequence

<220>

<223> The forward primer used for amplifying murine GAPDH gene by PCR

<400> 3

ggtgaaggtc ggtgtgaacg ga

22

<210> 4

<211> 22

<212> DNA

<213>Artificial Sequence

<220>

<223> The reverse primer used for amplifying murine GAPDH gene by PCR

<400> 4

tgtagtgagg gtctcgctcc tg

22

<210> 5

<211> 24

<212> DNA

<213>Artificial Sequence

<220>

<223> The forward primer used for amplifying murine Nanog gene by PCR

<400> 5

agggtctgct actgagatgc tctg

24

<210> 6

<211> 24

<212> DNA

<213>Artificial Sequence

<220>

<223> The reverse primer used for amplifying murine Nanog gene by PCR

<400> 6

caaccactgg tttttctgcc accg

24