CLAIMS

[Claim 1]

An anticancer agent containing a complex produced by making a metal-salen complex compound, which includes a central metal and (N, N, O, O) as a quadridentate ligand and is magnetic, bind to taxane molecules which are anticancerous,

wherein the anticancer agent is to kill cancer cells regarding which phase transition occurs between phases including Gap1, Synthesis, Gap2, and Mitosis and Cytokinesis.

[Claim 2]

The anti-cancer agent according to claim 1, wherein the cancer cells are cancer cells of breast cancer.

[Claim 3]

The anti-cancer agent according to claim 1, wherein the cancer cells are cancer cells of triple-negative breast cancer.

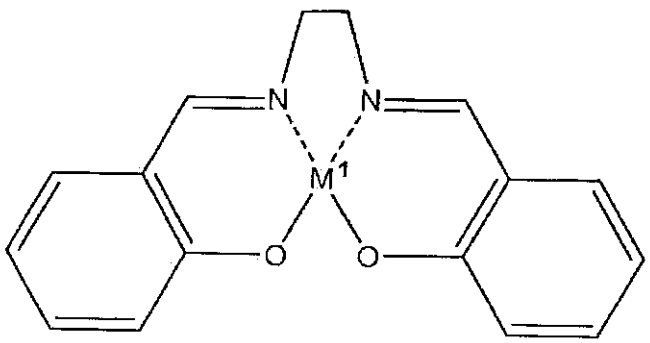
[Claim 4]

The anti-cancer agent according to claim 1, wherein the taxane molecules are selected from either one of paclitaxel and docetaxel.

[Claim 5]

The anti-cancer agent according to claim 1, wherein the anti-cancer agent contains the complex produced by making a metal-salen complex compound represented by Formula (1) bind to the taxane molecules:

[Chem. 1]



(1)

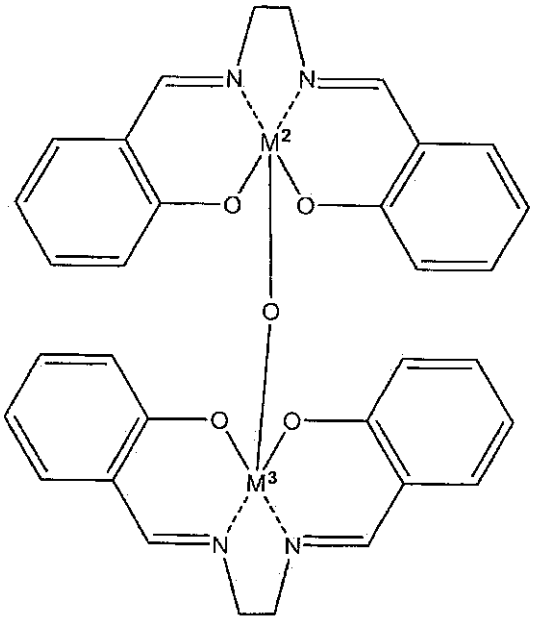
(wherein in Formula (1), a central metal M^1 is of any one type selected from a group

consisting of Fe, Cr, Mn, Co, Ni, Mo, Ru, Rh, Pd, W, Re, Os, Ir, Pt, Nd, Sm, Eu, and Gd).

[Claim 6]

The anti-cancer agent according to claim 1, wherein the anti-cancer agent contains the complex produced by making a metal-salen complex compound represented by Formula (2) bind to the taxane molecules:

[Chem. 2]



(2)

(wherein in Formula (2), a central metal M^2 and a central metal M^3 are independent of each other and are of any one type selected from a group consisting of Fe, Cr, Mn, Co, Ni, Mo, Ru, Rh, Pd, W, Re, Os, Ir, Pt, Nd, Sm, Eu, and Gd).

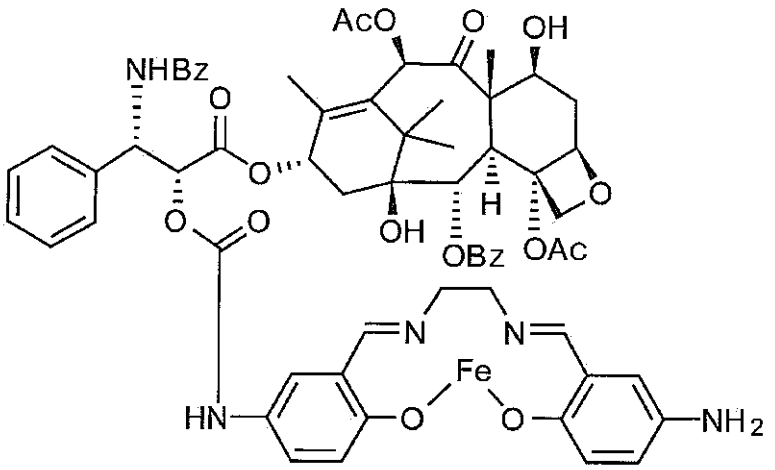
[Claim 7]

The anti-cancer agent according to claim 1, wherein a central metal of the metal-salen complex compound is Fe.

[Claim 8]

The anti-cancer agent according to claim 1, wherein the anti-cancer agent contains a complex represented by Formula (3).

[Chem. 3]

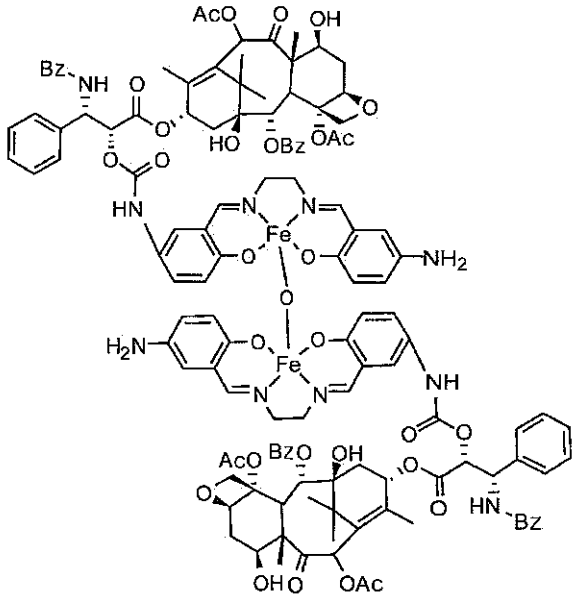


(3)

[Claim 9]

The anti-cancer agent according to claim 1, wherein the anti-cancer agent contains a complex represented by Formula (4).

[Chem. 4]



(4)

[Claim 10]

The anti-cancer agent according to any one of claims 1 to 9, wherein the anti-cancer agent is made to be indwelled in cancer cells constituting affected site tissues by applying an external magnetic field to the affected site tissues.