CLAIMS

[Claim 1]

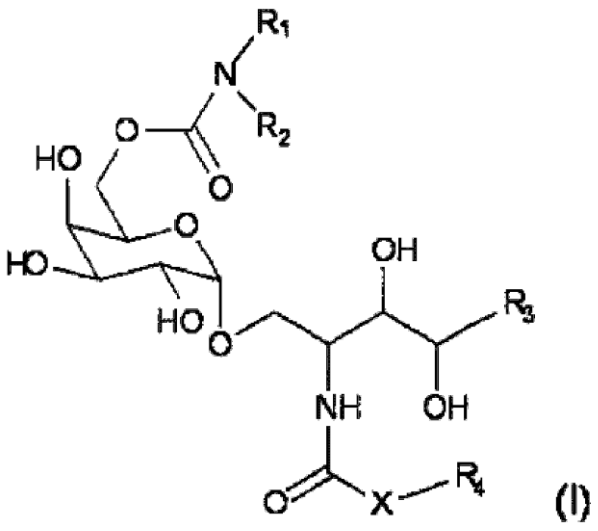
A liposome composition comprising: an NKT cell ligand; and an antigen.

[Claim 2]

The composition according to claim 1, wherein the NKT cell ligand is a glycolipid selected from the group consisting of a compound represented by Formula (I) below, a compound represented by Formula (II) below, and salts of the foregoing compounds,

Formula (I):

[Chem. 13]



(I)

wherein X represents an alkylene group or -NH-,

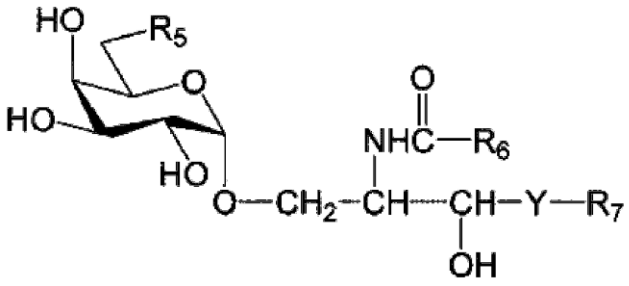
R_1 and R_2 are the same or different and each represents a hydrogen atom, an alkyl group, a hydroxyl group, an alkoxy group, or an optionally-substituted aryl group, R_1 and R_2 may form a 5- or 6-membered ring together with an adjacent nitrogen atom,

R_3 represents a hydrocarbon group having 1 to 20 carbon atoms, and

R_4 represents a hydrocarbon group having 1 to 30 carbon atoms,

Formula (II):

[Chem. 14]



(II)

wherein R_5 represents a hydrogen atom, an alkyl group having 1 to 7 carbon atoms, an alkoxy group having 1 to 6 carbon atoms, or a halogen atom, R_6 and R_7 each independently represent a substituted or unsubstituted hydrocarbon group having 1 to 28 carbon atoms, and Y represents $-CH_2-$, -CH(OH)-, or -CH=CH-.

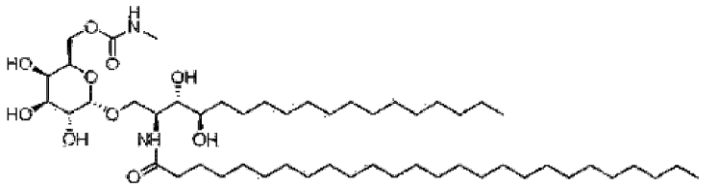
[Claim 3]

The composition according to claim 2, wherein the glycolipid is the compound represented by Formula (I) or a salt thereof.

[Claim 4]

The composition according to claim 2 or claim 3, wherein the glycolipid is a compound represented by the formula:

[Chem. 15]



or a salt thereof.

[Claim 5]

The composition according to any one of claims 1 to 4, wherein the composition is for use in inducing immune memory.

[Claim 6]

The composition according to any one of claims 1 to 4, wherein the antigen is a cancer antigen.

[Claim 7]

The composition according to claim 6, wherein the composition is for use in prophylactically inducing, even in the absence of cancer, activation and proliferation of a population of immune cells capable of recognizing a cancer antigen.

[Claim 8]

The composition according to claim 6, wherein the composition is for use in prophylactically inducing anticancer immune memory even in the absence of cancer.

[Claim 9]

The composition according to claim 6, wherein the composition is for use in providing an enhanced preventive effect against development, recurrence, and metastasis of cancer.

[Claim 10]

A method of inducing immune memory in a subject, the method comprising administering the composition according to any one of claims 1 to 4 to the subject.

[Claim 11]

A method of prophylactically inducing, even in the absence of cancer, activation and proliferation of a population of immune cells capable of recognizing a cancer antigen in a subject, the method comprising administering the composition according to claim 6 to the subject.

[Claim 12]

A method of prophylactically inducing anticancer immune memory even in the absence of cancer in a subject, the method comprising administering the composition according to claim 6 to the subject.