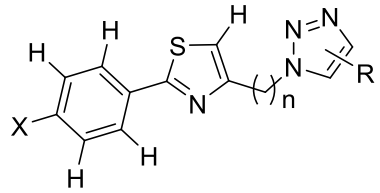
CLAIMS

1. A 1,2,3 triazole-thiazole compound of formula (I);



(I)

wherein;

R is independently selected from the group consisting of alkyl, cycloalkyl, aryl, aralkyl, hydroxyalkyl and alkoxyalkyl;

n is 1,2 or 3; and

X is a halogen**;**

or pharmaceutically acceptable salt thereof.

2. The compound as claimed in claim 1, wherein said compound of formula (I) is selected from the group consisting of 2-(4-Chlorophenyl)-4-((4-phenyl-1H-1,2,3-triazol-1-yl)methyl)thiazole (NDS-100971), 2-(4-Chlorophenyl)-4-((4-cyclopropyl-1H-1,2,3-triazol-1-yl)methyl)thiazole (NDS-100972), 4-((4-Butyl-1H-1,2,3-triazol-1-yl)methyl)-2-(4-chlorophenyl)thiazole (NDS-100973) 2-(4-Chlorophenyl)-4-((4-phenyl-1H-1,2,3-triazol-1-yl)methyl)thiazole (NDS-100971), 2-(4-Chlorophenyl)-4-((4-cyclopropyl-1H-1,2,3-triazol-1-yl)methyl)thiazole (NDS-100972), 4-((4-Butyl-1H-1,2,3-triazol-1-yl)methyl)-2-(4-chlorophenyl)thiazole (NDS-100973), 2-(4-Bromophenyl)-4-((4-butyl-1H-1,2,3-triazol-1-yl)methyl)thiazole, 2-(4-Fluorophenyl)-4-((4-phenyl-1H-1,2,3-triazol-1-yl)methyl)thiazole, , 4-((4-Benzyl-1H-1,2,3-triazol-1-yl)methyl)-2-(4-fluorophenyl)thiazole, 4-((4-Cyclohexyl-1H-1,2,3-triazol-1-yl)methyl)-2-(4-fluorophenyl)thiazole, 4-((4-Cyclopropyl-1H-1,2,3-triazol-1-yl)methyl)-2-(4-fluorophenyl)thiazole, 2-(4-Fluorophenyl)-4-((4-propyl-1H-1,2,3-triazol-1-yl)methyl) thiazole, 2-(4-Bromophenyl)-4-((4-propyl-1H-1,2,3-triazol-1-yl)methyl)thiazole, 2-(4-Chlorophenyl)-4-((4-propyl-1H-1,2,3-triazol-1-yl)methyl)thiazole, 4-((4-Benzyl-1H-1,2,3-triazol-1-yl)methyl)-2-(4-chlorophenyl)thiazole, 2-(4-Bromophenyl)-4-((4-cyclohexyl-1H-1,2,3-triazol-1-yl)methyl)thiazole, 2-(4-Chlorophenyl)-4-((4-cyclohexyl-1H-1,2,3-triazol-1-

yl)methyl)thiazole, 2-(4-Bromo phenyl) -4-((4-cyclopentyl-1H-1,2,3-triazol-1-yl) methyl)thiazole, 2-(4-Chloro phenyl) -4-((4-cyclopentyl-1H-1,2,3-triazol-1-yl) methyl) thiazole, 4-((4-Cyclopentyl-1H-1,2,3-triazol-1-yl)methyl)-2-(4-fluorophenyl)thiazole, (1-((2-(4-Fluorophenyl)thiazol-4-yl)methyl)-1H-1,2,3-triazol-4-yl)methanol, (1-((2-(4-Chlorophenyl)thiazol-4-yl)methyl)-1H-1,2,3-triazol-4-yl) methanol, (1-((2-(4-Bromophenyl)thiazol-4-yl)methyl)-1H-1,2,3-triazol-4-yl)methanol, 2-(4-Bromophenyl)-4-((4-(methoxymethyl)-1H-1,2,3-triazol-1-yl)methyl) thiazole, 2-(4-Chlorophenyl)-4-((4-(methoxymethyl)-1H-1,2,3-triazol-1-yl)methyl) thiazole, 2-(4-Fluorophenyl)-4-((4-(methoxymethyl)-1H-1,2,3-triazol-1-yl)methyl) thiazole, 2-(4-Fluorophenyl)-4-((4-(p-tolyl)-1H-1,2,3-triazol-1-yl)methyl)thiazole, 2-(4-Bromophenyl)-4-((4-(p-tolyl)-1H-1,2,3-triazol-1-yl)methyl) thiazole, 2-(4-Chlorophenyl)-4-((4-(p-tolyl)-1H-1,2,3-triazol-1-yl)methyl)thiazole, 2-(4-Chlorophenyl)-4-(2-(4-phenyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Bromophenyl)-4-(2-(4-phenyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Fluorophenyl)-4-(2-(4-phenyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Chlorophenyl)-4-(2-(4-cyclopropyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Bromophenyl)-4-(2-(4-cyclopropyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 4-(2-(4-Cyclopropyl-1H-1,2,3-triazol-1-yl)ethyl)-2-(4-fluorophenyl) thiazole, (1-(2-(2-(4-Fluorophenyl)thiazol-4-yl)ethyl)-1H-1,2,3-triazol-4-yl)methanol, (1-(2-(2-(4-Bromophenyl)thiazol-4-yl)ethyl)-1H-1,2,3-triazol-4-yl)methanol, (1-(2-(2-(4-Chlorophenyl)thiazol-4-yl)ethyl)-1H-1,2,3-triazol-4-yl)methanol, 2-(4-Fluorophenyl)-4-(2-(4-(methoxymethyl)-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Chlorophenyl)-4-(2-(4-(methoxymethyl)-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Bromophenyl)-4-(2-(4-(methoxymethyl)-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Bromophenyl)-4-(2-(5-(p-tolyl)-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Fluorophenyl)-4-(2-(5-phenyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Chlorophenyl)-4-(2-(5-phenyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Bromophenyl)-4-(2-(5-phenyl-1H-1,2,3-triazol-1-yl)ethyl) thiazole, 2-(4-Bromophenyl)-4-(2-(5-propyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Fluorophenyl)-4-(2-(5-propyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Chlorophenyl)-4-(2-(5-propyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 4-(2-(5-Cyclopropyl-1H-1,2,3-triazol-1-yl)ethyl)-2-(4-fluorophenyl)thiazole, 2-(4-Chlorophenyl)-4-(2-(5-cyclopropyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, 2-(4-Bromophenyl)-4-(2-(5-cyclopropyl-1H-1,2,3-triazol-1-yl)ethyl)thiazole, (1-(2-(2-

(4-Fluorophenyl)thiazol-4-yl)ethyl)-1H-1,2,3-triazol-5-yl) methanol, (1-(2-(2-(4-Chlorophenyl)thiazol-4-yl)ethyl)-1H-1,2,3-triazol-5-yl) methanol and (1-(2-(2-(4-Bromophenyl)thiazol-4-yl)ethyl)-1H-1,2,3-triazol-5-yl)methanol.

3. A process for the preparation of 1,2,3 triazole-thiazole compound of formula (I) as claimed in claim 1, said process comprising the steps of:

(a) adding sodium azide to a solution of chloro compound in solvent followed by stirring the reaction mixture at temperature in the range of 50˚C to 60˚C for a period of 5 to 6 hours to afford a corresponding azido compound;

(b) adding the azido compound of step (a) to a solution of copper (II) sulfate pentahydrate, reducing agent and alkyne in a suitable solvent, followed by stirring the reaction mixture at temperature of 25˚C to 32°C for a period of 5 to 6 hours.

4. The process as claimed in claim 3, wherein said chloro compound is selected from the group consisting of 4-(chloromethyl)-2-(4-chlorophenyl)thiazole, 4-(chloromethyl)-2-(4-bromophenyl)thiazole, 4-(chloromethyl)-2-(4-fluorophenyl)thiazole and 4-(chloromethyl)-2-(4-iodophenyl)thiazole.

5. The process as claimed in claim 3, wherein said azido compound is selected from the group consisting of 4-(Azidomethyl)-2-(4-chlorophenyl)thiazole, 4-(Azidomethyl)-2-(4-bromophenyl)thiazole, 4-(azidomethyl)-2-(4-fluorophenyl)thiazole and 4-(azidomethyl)-2-(4-iodophenyl)thiazole.

6. The process as claimed in claim 3, wherein said solvent is selected from the group consisting of a polar aprotic solvent, t-butanol, water or mixture thereof.

7. The process as claimed in claim 3, wherein said additive is selected from the group consisting of sodium ascorbate, 2-ethynylpyridine and triethyl amine.
8. The process as claimed in claim 3, wherein said alkyne is R-C≡CH wherein ‘R’ is independently selected from the group consisting of alkyl, cycloalkyl, aryl, aralkyl, hydroxyalky and alkoxyalkyl.

9. The process as claimed in claim 3, wherein said alkyne is selected from the group consisting of phenylacetylene. cyclopropylacetylene, 1-hexyne, 1-heptyne, 5-hexyn-1-ol and ethylpropiolate.

10. A pharmaceutical composition comprising compound of formula (I) as claimed in claim 1 or a pharmaceutically acceptable salt thereof and at least one pharmaceutically acceptable carrier.

11. Use of a therapeutically effective amount of 1,2,3 triazole-thiazole compound of formula (I) or pharmaceutically acceptable salt thereof in the manufacture of a medicament for treating spread of depigmentation in vitiligo by suppressing immunogenic cell death of melanocytes and suppressing localization of calreticulin to the cell surface of melanocytes, and wherein the medicament is to be administered to the subject.

12. The method as claimed in claim 11, wherein said subject is human.

13. The process according to claim 6, wherein the polar aprotic solvent is DMF or DMPU.