CLAIMS

1. Use of a composition of 2,2'-dithio-bis-ethane sulfonate, or a pharmaceutically-acceptable salt thereof in the manufacture of a medicament for treating a female patient suffering from non-small cell lung cancer.

2. The use of claim 1, wherein the patient is a non-smoker.

3. The use of claim 2, wherein the non-small cell lung cancer is lung adenocarcinoma.

4. The use of claim 1, wherein the medicament is to be administered to the patient in need thereof, and a second therapeutic agent useful in the treatment of non-small cell lung cancer is to be co-administered to the patient.

5. The use of claim 4, wherein the second therapeutic agent is paclitaxel or cisplatin.

6. The use of claim 4, wherein the second therapeutic agent is selected from camptothecin derivatives, paclitaxel, docetaxel, epothilone B, 5-FU, gemcitabine, oxaliplatin, cisplatinum, carboplatin, melphalam, dacarbazine, temozolomide, doxorubicin, imatinib, erlotinib, bevacizumab, and cetuximab.

7. The use of claim 4, wherein the non-small cell lung cancer is EGFR mutant positive non-small cell lung cancer.

8. The use of Claim 1, wherein the medicament comprising 10-40 grams per dose of the 2,2'-dithio-bis-ethane sulfonate, or the pharmaceutically-acceptable salt is to be administered to the patient.

9. The use of claim 1, wherein the patient is a never smoker.

10. Use of 2,2'-dithio-bis-ethane sulfonate, or a pharmaceutically-acceptable salt thereof and a second therapeutic agent in the manufacture of a pharmaceutical composition for treating advanced and/or metastatic non-small cell lung cancer in female patients, wherein the pharmaceutical composition is to be administered to a human patient having non-small cell lung cancer who has received a second-line or a higher-line therapy.

11. The use of claim 10, wherein non-small cell lung cancer is EGFR mutation negative non-small cell lung cancer.

12. The use of claim 10, wherein the second therapeutic agent is paclitaxel or cisplatin.

13. Use of 2,2'-dithio-bis-ethane sulfonate, or a pharmaceutically-acceptable salt thereof in the manufacture of a composition for treating a female, nonsmoking patient suffering from non-small cell lung cancer, wherein

the patient is to be determined as a non-smoker.

14. The of use of Claim 13, wherein testing for EGFR mutants is to be carried out.

15. The use of claim 13, wherein the composition is to be administered to the non-smoker, and a second therapeutic agent useful in the treatment of non-small cell lung cancer is to be co-administered to the non-smoker.

16. The use of claim 15, wherein the second therapeutic is paclitaxel or cisplatin.

17. The use of claim 15, wherein the second therapeutic agent is selected from camptothecin derivatives, paclitaxel, docetaxel, epothilone B, 5-FU, gemcitabine, oxaliplatin, cisplatinum, carboplatin, melphalam, dacarbazine, temozolomide, doxorubicin, imatinib, erlotinib, bevacizumab, and cetuximab.

18. The use of claim 16, wherein the composition comprises an effective amount of ranges of 2,2'-dithio-bis-ethane sulfonate, or the pharmaceutically-acceptable salt thereof ranging from 0.01-10 grams per dose.

19. The use of claim 13, wherein the non-small cell lung cancer is to be further determined as ALK, ROS, MET, EGFR mutant-positive non-small cell lung cancer.

20. The use of claim 13, wherein the non-small cell lung cancer is to be determined to include ALK and ROS1 gene fusions/rearrangements, EGFR gene mutations/deletions, and MET/HGFR gene amplifications.