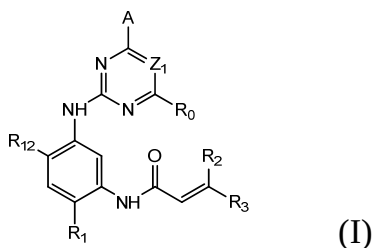
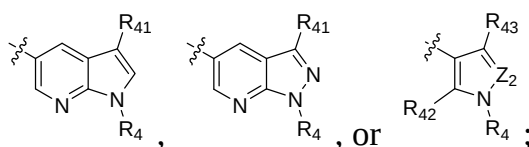


What we claim:

1. A compound of formula (I), or a pharmaceutically acceptable salt, stereoisomer, solvate thereof:



wherein,



A is any one selected from

wherein Z_2 is CR_5 or N; R_5 is a hydrogen, halogen, trifluoromethyl or C_{1-10} alkoxy;

R_4 is a hydrogen or C_{1-10} alkyl, C_{3-10} cycloalkyl, C_{3-10} heterocycloalkyl, or C_{1-10} haloalkyl;

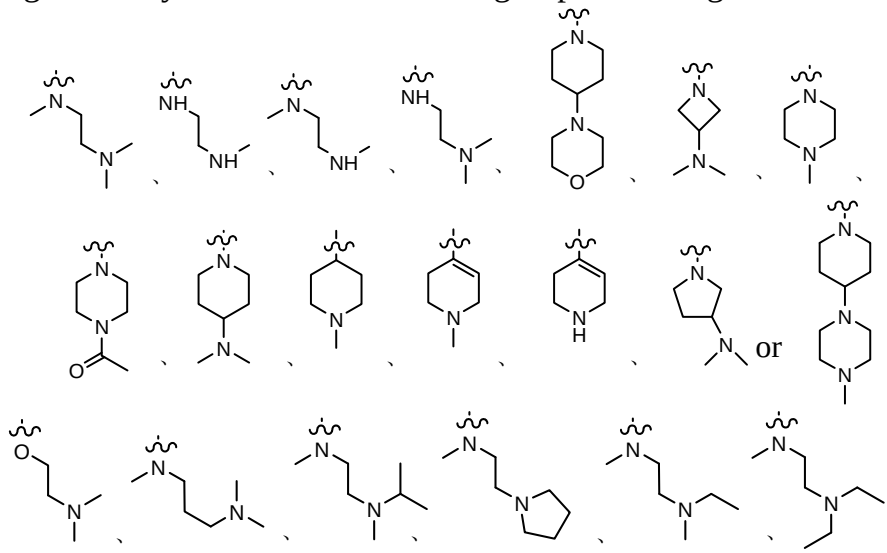
each of R_{42} , R_{43} is independently a hydrogen or C_{1-10} alkyl,

R_{41} is a hydrogen, halogen, trifluoromethyl, C_{1-10} alkyl or C_{1-10} alkoxy;

R_0 is a hydrogen, halogen, C_{1-10} alkyl, $-NR_aR_b$ or $-CO-NR_aR_b$, wherein each of R_a , R_b is independently C_{1-10} alkyl;

Z_1 is CR_6 ; wherein R_6 is a hydrogen, halogen, trifluoromethyl, methoxy or $-CO_2C_{1-10}$ alkyl;

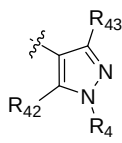
R_1 is a hydrogen, or any one selected from the group consisting of:



each of R_2 and R_3 is independently a hydrogen;

R_{12} is a hydrogen, halogen, C_{1-10} alkyl or C_{1-10} alkoxy.

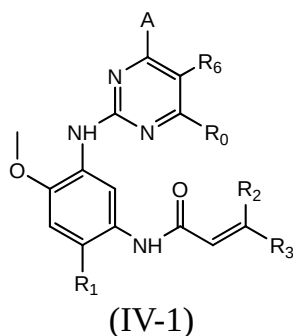
2. The compound of Claim 1, or a pharmaceutically acceptable salt, stereoisomer,



solvate thereof, wherein A is

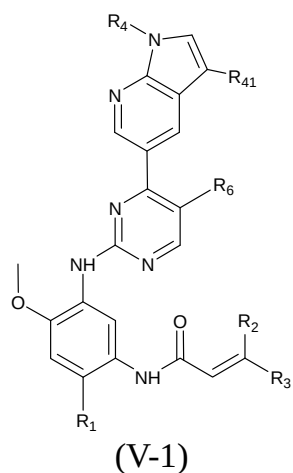
wherein R₄, R₄₂, R₄₃ are defined as in Claim 1.

3. The compound of Claim 1, or a pharmaceutically acceptable salt, stereoisomer, solvate thereof, wherein the compound of formula (I) is a compound represented by formula (IV-1):

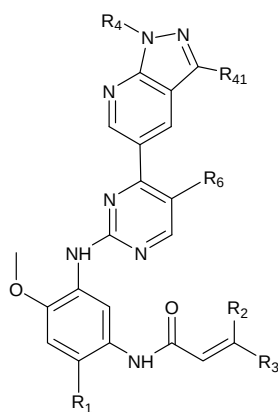


in formula (IV-1), A, R₀, R₁, R₂, R₃ and R₆ are defined as in Claim 1.

4. The compound of Claim 1 or a pharmaceutically acceptable salt, stereoisomer, solvate thereof, wherein the compound of formula (I) is a compound represented by formula (V-1), (VI-1), (XI-1) or:

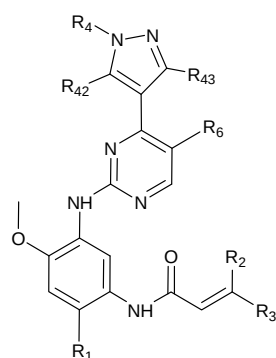


in formula (V-1), R₁, R₂, R₃, R₄, R₄₁ and R₆ are defined as in Claim 1;



(VI-1)

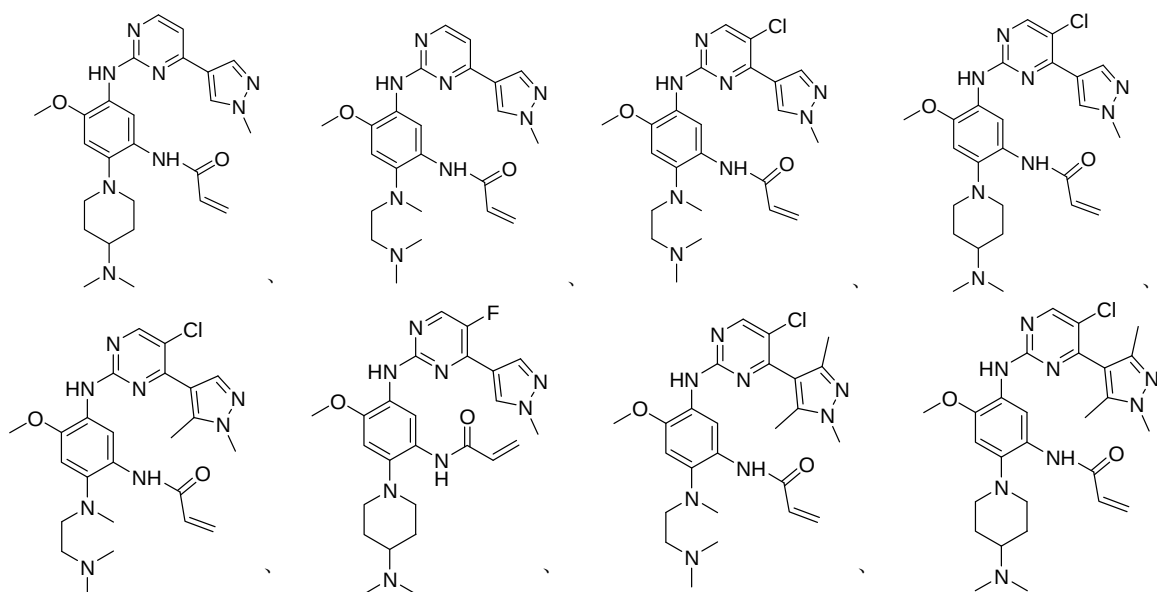
in formula (VI-1), R₁, R₂, R₃, R₄, R₄₁ and R₆ are defined as in Claim 1;

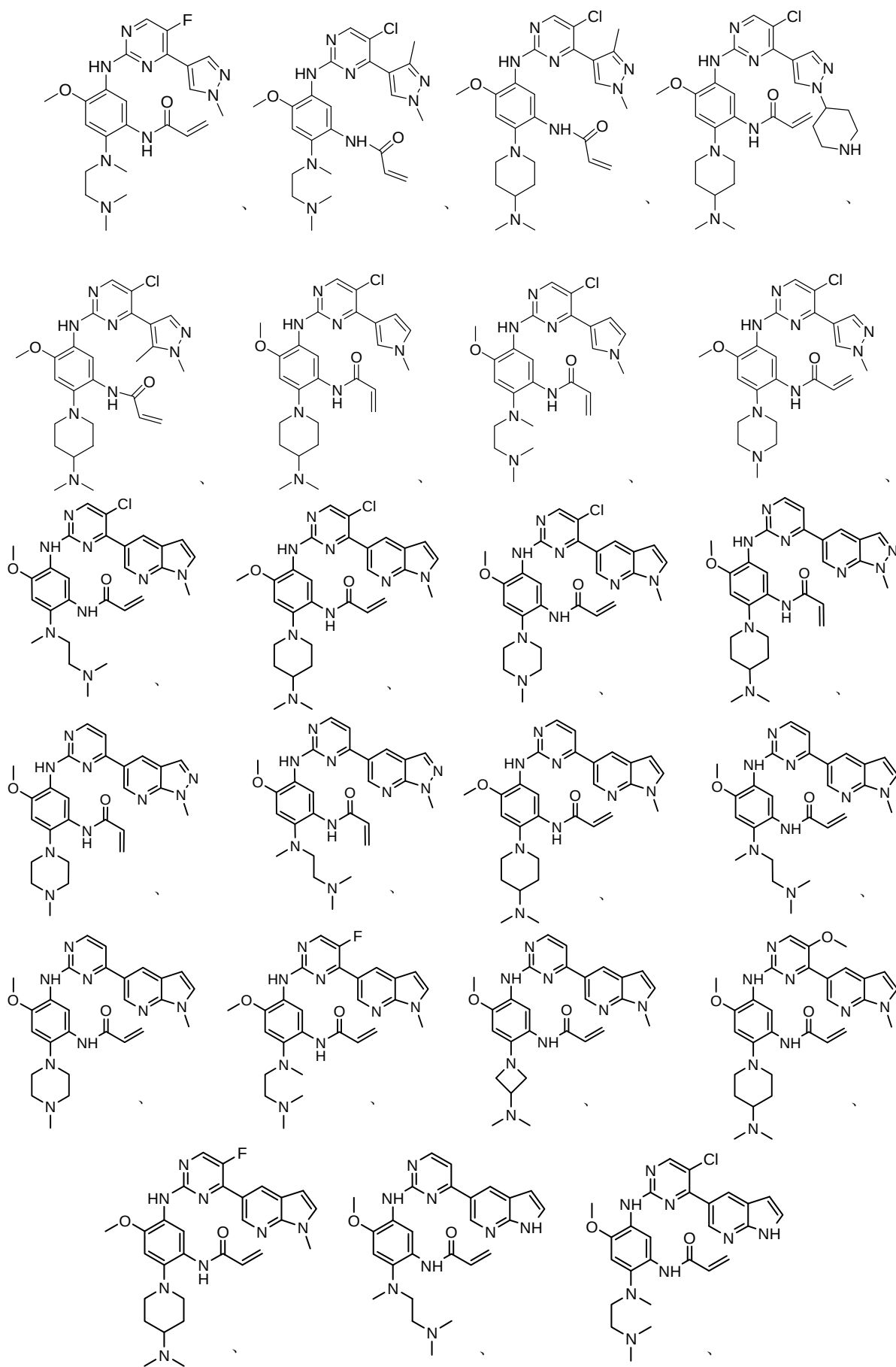


(XI-1)

in formula (XI-1), R₁, R₂, R₃, R₄, R₄₂, R₄₃ and R₆ are defined as in Claim 1.

5 10 5. The compound of Claim 1 or a pharmaceutically acceptable salt, stereoisomer, solvate thereof, wherein the compound of formula (I) is selected from:





6. A pharmaceutical composition including a compound of any one of Claims 1-5, or a pharmaceutically acceptable salt, stereoisomer, solvate thereof, and a pharmaceutically acceptable carrier.

5 7. Use of the compound of any one of Claims 1-5 or a pharmaceutically acceptable salt, stereoisomer, solvate thereof in the manufacture of a medicament for treating EGFR-related diseases, wherein the EGFR-related disease is cancer, diabetes, immune system diseases, neurodegenerative diseases, cardiovascular diseases.

10 8. A pharmaceutical composition including the compound of any one of Claims 1-5 or a pharmaceutically acceptable salt, stereoisomer, solvate thereof, as well as other drug which is one or more selected from the following group: gefitinib, erlotinib, icotinib, lapatinib, XL647, NVP-AEE-788, ARRY-334543, EKB-569, BIBW2992, HKI272, BMS-690514, CI-1033, vandetanib, PF00299804, WZ4002, cetuximab, trastuzumab,
15 panitumumab, matuzumab, nimotuzumab, zalutumumab, pertuzumab, MDX -214, CDX-110, IMC-11F8, Zemab, Her2 vaccine PX 1041, HSP90 inhibitors, CNF2024, tanespimycin, alvespimycin, IPI-504, SNX-5422, NVP-AUY922, or combinations thereof.