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Invention Title	(E)-4-(2-(4-CHLORO-3-(TRIFLUOROMETHYL)PHENYL)HYDRAZONO)-5-METHYL-2-(4-PHENYLTHIAZOL-2-YL)-2,4-DIHYDRO-3H-PYRAZOL-3-ONE AS NEW ANTI-LUNG CANCER AGENTS
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Abstract:

The present invention discloses the synthesis and anticancer screening of the new compounds, (E)-4-(2-(4-Chloro-3-(trifluoromethyl)phenyl)hydrazono)-5-methyl-2-(4-phenylthiazol-2-yl)-2,4-dihydro-3H-pyrazol-3-ones against lung (A549) cancer cell line. All the compounds inhibited the proliferation of A549 cells in concentration dependent manner. The compound 1h showed the highest anti-proliferative activity against the lung cancer cells with IC50 value $37.83 \pm 0.6 \mu\text{M}$ followed by 1c, 1d, 1k, with less than $100 \mu\text{M}$ IC50 values.

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