SUCMDL20230301002

Shaanxi University of Chinese Medicine
Animal Ethics Committee

Animal Experiment Ethics Review Opinion Form

<table>
<tr><td rowspan="8">Applic-ant's relevant inform-ation</td><td colspan="3">Applicant Unit: School of Pharmacy, Shaanxi University of Chinese Medicine</td></tr>
<tr><td colspan="3">Applicant Name: Hui Guo   Education: PhD   Technical Title: Professor</td></tr>
<tr><td colspan="3">Experiment Name: Design, synthesis, and biological evaluation of evodiamine - indolequinone hybrids as novel NQO1 agonists against non-small cell lung cancer</td></tr>
<tr><td colspan="3">Objective: To evaluate the anti-tumor activity of the novel NQO1 agonist evodiamine - indolequinone against non-small cell lung cancer and its safety in the body using a mouse tumor transplantation model.</td></tr>
<tr><td rowspan="4">Proposed Animal Information</td><td colspan="2">Animal Source: Chengdu Dashuo Experimental Animal Co., Ltd.</td></tr>
<tr><td colspan="2">Strain: C57 Mice   Grade: SPF Level   Specification: 6 Weeks Old</td></tr>
<tr><td>Quantity: （♂ 50 ♀ 0 ）</td><td>Application Date: March 1, 2023</td></tr>
<tr><td>Entry Date: March 10, 2023</td><td>End Date: April 10, 2023</td></tr>
<tr><td colspan="3">Key points of the experiment, including experimental methods, observation indicators, and methods of killing animals after the experiment:
After 1 week of adaptive feeding, 6-week-old male C57 mice were randomly divided into 11b experimental group, positive control group (EVO and 5-Fu) and negative control group, with 6 mice in each group. 1×10^{6} LCC cells were inoculated subcutaneously on the right side of each mouse to form a transplanted tumor model. Each group was given intraperitoneal injection daily. After 13 consecutive days of treatment, the mice were anesthetized by intraperitoneal injection of pentobarbital, and liver, kidney and tumor tissue samples were collected. Tumor inhibition rate was weighed and calculated. The tissue samples were fixed with 4% paraformaldehyde, dehydrated with ethanol, embedded with paraffin, and then stained with H&E to observe the histological changes. The paraffin sections of tumor tissues will undergo immunohistochemical analysis, then undergo antibody incubation, DAB staining and hematoxylin restaining treatment, and finally observe and preserve the results through immunohistochemical scanner.</td></tr>
<tr><td>Item Source</td><td>Subject Innovation Team of Shaan xi University of Chinese Medicine</td><td>Contact Number</td><td>15691078810</td></tr>
<tr><td colspan="4">Declaration: I will consciously abide by the ethical principles of experimental animals, accept the supervision and inspection of the Committee at any time, and voluntarily accept punishment if I violate the regulations.

Signature of Project leader: Hui Guo</td></tr>
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Ethical review comments: ☑ Agree ☐ Modified consent ☐ Disagree
Approval opinion After preliminary review, the animal experiments involved in this project will adhere to internationally recognized standards and standard operating procedures for animal laboratories. The animal experimentation protocol complies with the principles of animal protection, animal welfare, and ethical standards, as well as relevant regulations regarding animal welfare and ethics in our country. Shaanxi University of Chinese Medicine Animal Ethics Committee （Seal）