

Alpelisib Formulation

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For in vivo experiments (the concentration of 25 mg/kg)

1. Prepare vehicle solution---0.5% CMV/H₂O: Dissolve 0.5 g of CMV into 100 mL of water and then sterile filtered. Once this solution is made, keep in dark at room temperature.
2. Make alpelisib solution: Dilute cabozantinib into 0.5% CMV/H₂O for final concentration of 5 mg/ml. Dosing solutions seem to be fine for 2-3 weeks at 4 °C kept in the dark.
3. Dose at 100 ul po/20 g mouse (=25 mg/kg).

Products information

1. Alpelisib is from LC Laboratories, product number a-4477, 100mg.
Link: <https://lclabs.com/products/a-4477>
2. The CMV is from Sigma-Aldrich, product number c4888, 500g (Carboxymethylcellulose sodium salt avg MW 90,000).
Link: <https://www.sigmaaldrich.com/catalog/product/sigma/c4888?lang=en®ion=US>

For in vitro experiments

1. Purchase alpelisib with the amount of 100mg.
2. Dissolve cabozantinib in 1ml of DMSO to the stock concentration of 10mM/L. For long term storage, freeze aliquots and store at -80.
3. Then dilute cabozantinib to a middle concentration with cell culture medium before adding to cell culture.

