



	PerkinElmer Envision instrument. The concentration of each compound for 50% inhibition (IC <sub>50</sub> ) is calculated by non-linear regression using XL Fit data analysis software
<b>Cell Research</b>	LGX818 is dissolved in DMSO. A375 is a melanoma cell line that harbors the B-Raf V600E mutation. A375-luc cells engineered to express luciferase is plated to 384-well white clear bottom plates as 1,500 cells/50 µL/well in DMEM containing 10% FBS. Test compounds, dissolved in 100% DMSO at appropriate concentrations, are transferred to the cells by a robotic Pin Tool (100 µL). The cells are incubated for 2 days at 25°C, then 25 µL of BrightGlo™ is added to each well and the plates are read by luminescence. The concentration of each compound for 50% inhibition (IC <sub>50</sub> ) is calculated by non-linear regression using XL Fit data analysis software. wild type and V600E B-Raf.

## Solubility Information

<b>Solubility</b>	<p>10% DMSO+40% PEG300+5% Tween 80+45% Saline: 9.3 mg/mL (17.22 mM), In vivo: Suspension. Please add co-solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary.</p> <p>Working solution is recommended to be prepared and used immediately.</p> <p>H<sub>2</sub>O: 1 mg/mL (insoluble or slightly soluble),</p> <p>Ethanol: 93 mg/mL (172.2 mM),</p> <p>DMSO: 45 mg/mL (83.33 mM),</p> <p>(&lt; 1 mg/ml refers to the product slightly soluble or insoluble)</p>
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8518 mL	9.2591 mL	18.5182 mL
5 mM	0.3704 mL	1.8518 mL	3.7036 mL
10 mM	0.1852 mL	0.9259 mL	1.8518 mL
50 mM	0.037 mL	0.1852 mL	0.3704 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

## Reference

Li B, Ming H, Qin S, et al. HSPA8 Activates Wnt/β-Catenin Signaling to Facilitate BRAF V600E Colorectal Cancer Progression by CMA-Mediated CAV1 Degradation. *Advanced Science*. 2023: 2306535.

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