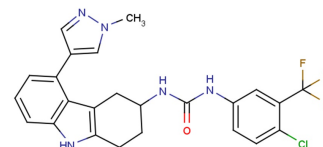


## Antitumor agent-19

## Chemical Properties

CAS No.:	2379727-90-7
Formula:	C <sub>24</sub> H <sub>21</sub> ClF <sub>3</sub> N <sub>5</sub> O
Molecular Weight:	487.9
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Antitumor agent-19 is an antitumor agent targeting tumor-associated macrophages (TAMs) to serve as an effective TAMs modulator (EC <sub>50</sub> s: 17.18 $\mu$ M and 18.87 $\mu$ M in the RAW 264.7 cells and the BMDM cells).
Targets(IC <sub>50</sub> )	tumor-associated macrophages (TAMs): None
In vitro	Antitumor agent-19 (Compound 23a; 10-50 $\mu$ M; 1 hour; RAW 264.7 cells) treatment effectively induces the expression of M1-phenotype macrophage markers (IL-1 $\beta$ , TNF- $\alpha$ , iNOS, and IL-12 $\alpha$ ) in a dose-dependent manner. Antitumor agent-19 is found to dose-dependently repolarize TAMs from M1 (anti-tumor) and M2 (pro-tumor).
In vivo	Antitumor agent-19 (5 mg/kg; i.p.; every other day; for 30 days; C57BL/6 female mice) is capable of remarkably inhibiting tumor growth of the LLC mouse model. The synergy of Antitumor agent-19 with anti-PD-1 antibody has more superior antineoplastic effects than the exclusive use of either in vivo.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.05 mL	10.248 mL	20.496 mL
5 mM	0.41 mL	2.05 mL	4.099 mL
10 mM	0.205 mL	1.025 mL	2.05 mL
50 mM	0.041 mL	0.205 mL	0.41 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Pei H, et al. discovery of potent ureido tetrahydrocarbazole derivatives for cancer treatments through targeting tumor-associated macrophages. Eur J Med Chem. 2019 Sep 28;183:111741.

Inhibitors · Natural Compounds · Compound Libraries

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