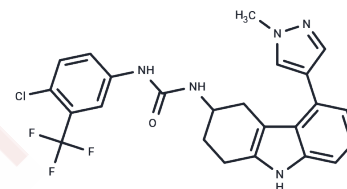


Antitumor agent-19

Chemical Properties

CAS No. :	2379727-90-7
Formula:	C ₂₄ H ₂₁ ClF ₃ N ₅ O
Molecular Weight:	487.9
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Antitumor agent-19 is a modulator of tumor-associated macrophages with EC ₅₀ s of 17.18 μM and 18.87 μM in the RAW 264.7 cells and the BMDM cells.
Targets(IC ₅₀)	Others, TNF
In vitro	In RAW 264.7 cells, Antitumor agent-19 (10 μM, 20 μM, or 50 μM) effectively and dose-dependently induces the expression of M1-phenotype macrophage markers including IL-1β, TNF-α, iNOS and IL-12α. Antitumor agent-19 dose-dependently repolarizes tumor-associated macrophages from M1 (anti-tumor) and M2 (pro-tumor)[1].
In vivo	In C57BL/6 female mice with lewis lung cancer cells, Antitumor agent-19 (5 mg/kg; i.p.) remarkably inhibits tumor growth. The synergy of Antitumor agent-19 with anti-PD-1 antibody shows more superior antineoplastic effects in vivo[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (102.48 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0496 mL	10.248 mL	20.496 mL
5 mM	0.4099 mL	2.0496 mL	4.0992 mL
10 mM	0.205 mL	1.0248 mL	2.0496 mL
50 mM	0.041 mL	0.205 mL	0.4099 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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