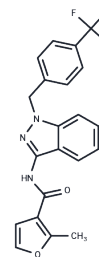


NP-G2-044

## Chemical Properties

CAS No. : 1807454-59-6  
 Formula: C<sub>21</sub>H<sub>16</sub>F<sub>3</sub>N<sub>3</sub>O<sub>2</sub>  
 Molecular Weight: 399.37  
 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	NP-G2-044 is an orally active fascin inhibitor, with an IC <sub>50</sub> of ~2 μM. It blocks tumor metastasis and increases antitumor immune response.
Targets(IC <sub>50</sub> )	Others,Wnt/beta-catenin
In vitro	NP-G2-044 inhibits the migration of MDA-MB-231 tumor cells with an IC <sub>50</sub> of approximately 10 μM, reducing filopodial and subsequently lamellipodial formation[1].
In vivo	NP-G2-044 (100 mg/kg; i.p.; daily for 18 days) inhibits breast tumor metastasis in mouse models[1].

## Solubility Information

Solubility	DMSO: 240 mg/mL (600.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	5% DMSO+95% Corn Oil: 10 mg/mL (25.04 mM),Suspension. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.02 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.5039 mL	12.5197 mL	25.0394 mL
5 mM	0.5008 mL	2.5039 mL	5.0079 mL
10 mM	0.2504 mL	1.252 mL	2.5039 mL
50 mM	0.0501 mL	0.2504 mL	0.5008 mL

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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

Han S, et al. Improving fascin inhibitors to block tumor cell migration and metastasis. Mol Oncol. 2016;10(7):966-980.

Vincent Chung, et al. Abstract C053: NP-G2-044, a novel fascin inhibitor, blocks tumor metastasis and increases antitumor immune response.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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