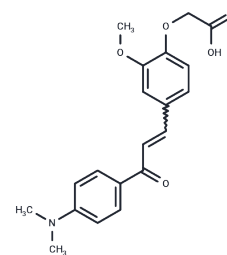


## SMS 121

## Chemical Properties

CAS No. :	949875-48-3
Formula:	C <sub>20</sub> H <sub>21</sub> N <sub>5</sub> O
Molecular Weight:	355.38
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	SMS 121 is a novel CD36 inhibitor that impairs fatty acid uptake and cell viability in acute myeloid leukaemia (AML) cells.
Targets(IC50)	Integrin
In vitro	<b>Methods:</b> KG-1 cells were treated with SMS 121 (0-400 μM, 72 hours), and cell viability was measured by ATP assay. <b>Results:</b> SMS 121 inhibited KG-1 cell viability with an IC50 value of 156 μM. [1]

## Solubility Information

Solubility	DMSO: 8.82 mg/mL (24.82 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	50% PEG300+50% Saline: 10 mg/mL (28.14 mM) 10% DMSO+90% Saline: 0.88 mg/mL (2.48 mM), Suspension. <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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	1mg	5mg	10mg
1 mM	2.8139 mL	14.0694 mL	28.1389 mL
5 mM	0.5628 mL	2.8139 mL	5.6278 mL
10 mM	0.2814 mL	1.4069 mL	2.8139 mL
50 mM	0.0563 mL	0.2814 mL	0.5628 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

Åbacka H, et al. SMS 121, a new inhibitor of CD36, impairs fatty acid uptake and viability of acute myeloid leukemia[J]. Scientific Reports, 2024, 14(1): 9104.

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