

TJ191

## Chemical Properties

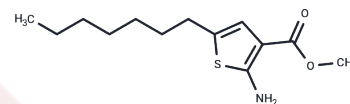
CAS No. : 1522415-97-9

Formula: C<sub>13</sub>H<sub>21</sub>N<sub>2</sub>O<sub>2</sub>S

Molecular Weight: 255.38

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	TJ191 is a selective anti-cancer agent, targeting low TβRIII-expressing malignant T-cell leukemia/lymphoma cells.
Targets(IC50)	Apoptosis
In vitro	TJ191 (0.1-3 μM; 8 or 24 hours) induces CEM cell apoptosis in a concentration- and time-dependent manner. Even at 0.3 μM, TJ191 induces the maximum apoptotic rate of 80% after 24 h. TJ191 (0-100 μM; 24 hours) exhibits pronounced anti-proliferative activity in malignant cell lines, the IC <sub>50</sub> values are 0.13 μM, 0.13±0.08 μM, 0.26±0.19 μM, 0.22±0.11 μM, 1.5±0.02 μM, 0.32±0.086 μM, 3.1±0.5 μM, 0.26±0.16 μM in CEM, JURKAT, MOLT-3, MOLT-4, SUP-T1, MT-2, C8166 and HSB-2 cells, respectively. But has no effects in HUT-78 (IC <sub>50</sub> =17±10 μM) and MT-4 (IC <sub>50</sub> =47 ± 5 μM) cells.

## Solubility Information

Solubility	DMSO: 55 mg/mL (215.37 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (9.79 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	3.9157 mL	19.5787 mL	39.1573 mL
5 mM	0.7831 mL	3.9157 mL	7.8315 mL
10 mM	0.3916 mL	1.9579 mL	3.9157 mL
50 mM	0.0783 mL	0.3916 mL	0.7831 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

Ahmed El-Gazzar, et al. 2-Amino-3-methylcarboxy-5-heptyl-thiophene (TJ191) is a selective anti-cancer small molecule that targets low T $\beta$ RIII-expressing malignant T-cell leukemia/lymphoma cells. *Oncotarget*. 2017 Dec 15;9 (5):6259-6269.

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