

## ONO-4059 analog

## Chemical Properties

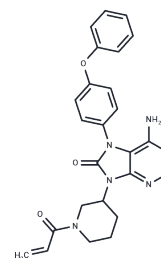
CAS No. : 1351635-67-0

Formula: C<sub>25</sub>H<sub>24</sub>N<sub>6</sub>O<sub>3</sub>

Molecular Weight: 456.5

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	ONO-4059 analog (ONO-WG-307) is an analogue of ONO-4059, which is a highly potent and selective oral BTK inhibitor with IC <sub>50</sub> of 23.9 nM. Phase 1.
Targets(IC <sub>50</sub> )	Apoptosis, BTK
In vitro	In TMD-8 cells, ONO-4059 inhibits cell growth with IC <sub>50</sub> of 3.59 nM, and induces cell apoptosis. The combination of ONO-4059 with doxorubicin, etoposide, vincristine or dexamethasone causes the increased apoptosis ratio. [1]

## Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 16 mg/mL (35.05 mM), Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.38 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	2.1906 mL	10.9529 mL	21.9058 mL
5 mM	0.4381 mL	2.1906 mL	4.3812 mL
10 mM	0.2191 mL	1.0953 mL	2.1906 mL
50 mM	0.0438 mL	0.2191 mL	0.4381 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

Yasuhiro T, et al. Blood, 2013, 122 (21), 5151- 5151.

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