

ON 146040

## Chemical Properties

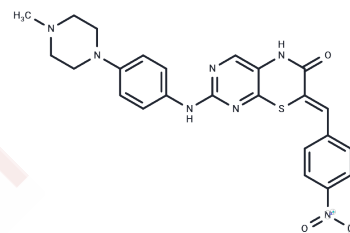
CAS No. : 1404231-34-0

Formula: C<sub>24</sub>H<sub>23</sub>N<sub>7</sub>O<sub>3</sub>S

Molecular Weight: 489.55

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	ON 146040 is an effective inhibitor of PI3K isoforms with IC <sub>50</sub> s of 14 and 20 nM for PI3K $\alpha$ and PI3K $\delta$ , respectively.
Targets(IC <sub>50</sub> )	Bcr-Abl, PI3K
In vitro	ON 146040 inhibits Abl1 and several mutant versions of this kinase with IC <sub>50</sub> < 150 nM. ON 146040 is highly potent in killing hematologic tumor cells with IC <sub>50</sub> values in the 150 to 1000 nM range. ON 146040 downregulates the phosphorylation of STAT3 and STAT5 in leukemia and myeloma cells[1].

## Solubility Information

Solubility	DMSO: 4.9 mg/mL (10.01 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	2.0427 mL	10.2135 mL	20.4269 mL
5 mM	0.4085 mL	2.0427 mL	4.0854 mL
10 mM	0.2043 mL	1.0213 mL	2.0427 mL
50 mM	0.0409 mL	0.2043 mL	0.4085 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

Stephen Cosenza, et al. Targeting oncogenic STAT3 and STAT5 signaling with on 146040, a small molecule inhibitor of PI3K  $\alpha/\delta$  and BCR-ABL. Journal of Clinical Oncology 2014 32:15

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

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