Data Sheet (Cat.No.T12310)



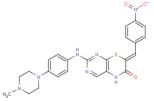
ON 146040

Chemical Properties

CAS No.: 1404231-34-0 Formula: C24H23N7O3S

Molecular Weight: 489.55 Appearance: N/A

Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	ON 146040 is a potent inhibitor of PI3K α and PI3K δ (IC50 \approx 14 and 20 nM, respectively) .		
Targets(IC ₅₀)	PI3Kα: 14 nM PI3Kδ: 20 nM PI3Kγ: 1 μM PI3Kβ: 3 μM AbI1: 150 nM		
In vitro	ON 146040 was highly potent in killing hematologic tumor cells with IC50 values in the 150 to 1,000 nM range. In biochemical testing, ON 146040 inhibited PI3K α/δ isoforms (IC50 14 and 20 nM, respectively) without having a major effect on β/γ isoforms (IC50 3 and 1 μ M, respectively). ON 146040 was also found to inhibit Abl1 and several mutant versions of this kinase (IC50 < 150 nM), although the compound was not found to be active against the T315I mutant. Following treatment with ON 146040, STAT3 and STAT5 phosphorylation were down-regulated in leukemia and myeloma cells		

Solubility Information

Solubility

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.043 mL	10.213 mL	20.427 mL
5 mM	0.409 mL	2.043 mL	4.085 mL
10 mM	0.204 mL	1.021 mL	2.043 mL
50 mM	0.041 mL	0.204 mL	0.409 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Targeting oncogenic STAT3 and STAT5 signaling with on 146040, a small molecule inhibitor of PI3K α/δ and BCR-ABL.

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