# Data Sheet (Cat.No.T12462)



#### PI3Kδ-IN-1

#### **Chemical Properties**

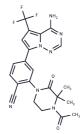
CAS No.: 1911564-39-0

Formula: C22H20F3N7O2

Molecular Weight: 471.44

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## **Biological Description**

Description	PI3Kδ-IN-1 is an efficacious PI3Kδ inhibitor (IC50 of 1.7 nM).
Targets(IC50)	PI3K
In vitro	PI3Kδ-IN-1 has an improved human/rodent in vitro stability correlation and a good permeability profile[1].
In vivo	PI3Kδ-IN-1 shows greater than 50% suppression of paw swelling in mice. PI3Kδ-IN-1 has an EC50 of 10 nM at 24 h (ED50 of 1.25 mg/kg) in mice[1].

## **Solubility Information**

Solubility	H2O: 18.0 mg/mL (37.6 mM),Sonication and heating to 60℃ are recommended.
	(< 1 mg/ml refers to the product slightly soluble or insoluble)

## **Preparing Stock Solutions**

<b>(</b> 0)	1mg	5mg	10mg
1 mM	2.1212 mL	10.6058 mL	21.2116 mL
5 mM	0.4242 mL	2.1212 mL	4.2423 mL
10 mM	0.2121 mL	1.0606 mL	2.1212 mL
50 mM	0.0424 mL	0.2121 mL	0.4242 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.

#### Reference

Liu Q, et al. Identification of a Potent, Selective, and Efficacious Phosphatidylinositol 3-Kinase  $\delta$  (PI3K $\delta$ ) Inhibitor for the Treatment of Immunological Disorders. J Med Chem. 2017 Jun 22;60(12):5193-5208.

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