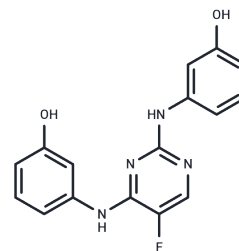


R112

## Chemical Properties

CAS No. : 575474-82-7  
 Formula: C<sub>16</sub>H<sub>13</sub>FN<sub>4</sub>O<sub>2</sub>  
 Molecular Weight: 312.3  
 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	R112 is an ATP-competitive inhibitor of Syk kinase. $K_i=6$ nM, $IC_{50}=226$ nM.
Targets( $IC_{50}$ )	Syk

## Solubility Information

Solubility	DMSO: 55 mg/mL (176.11 mM), Sonication is recommended. ( $< 1$ 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 (6.4 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

	1mg	5mg	10mg
1 mM	3.202 mL	16.0102 mL	32.0205 mL
5 mM	0.6404 mL	3.202 mL	6.4041 mL
10 mM	0.3202 mL	1.601 mL	3.202 mL
50 mM	0.064 mL	0.3202 mL	0.6404 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

Rossi AB, et al. J Allergy Clin Immunol. 2006 Sep;118(3):749-55.

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