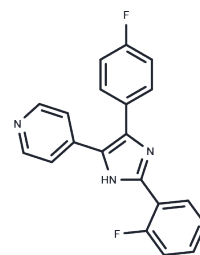


TA-02

## Chemical Properties

CAS No. : 1784751-19-4  
 Formula: C<sub>20</sub>H<sub>13</sub>F<sub>2</sub>N<sub>3</sub>  
 Molecular Weight: 333.33  
 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	TA-02 is a p38 MAPK inhibitor with IC <sub>50</sub> of 20 nM. TA-02 especially inhibits TGFBR-2.
Targets(IC <sub>50</sub> )	Autophagy, p38 MAPK

## Solubility Information

Solubility	DMSO: 50 mg/mL (150 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 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	3.000 mL	15.0002 mL	30.0003 mL
5 mM	0.600 mL	3.000 mL	6.0001 mL
10 mM	0.300 mL	1.500 mL	3.000 mL
50 mM	0.060 mL	0.300 mL	0.600 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

Laco F, et al. Cardiomyocyte differentiation of pluripotent stem cells with SB203580 analogues correlates with Wnt pathway CK1 inhibition independent of p38 MAPK signaling. J Mol Cell Cardiol. 2015 Mar;80:56-70.

Filip LACO, et al. 2,4,5-tri-substituted azole-based casein kinase 1 inhibitors as inducers for cardiomyogenesis. WO 201519579 A1.

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