

MK-5046

## Chemical Properties

CAS No. : 1022152-70-0

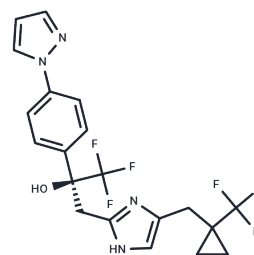
Formula: C<sub>20</sub>H<sub>18</sub>F<sub>6</sub>N<sub>4</sub>O

Molecular Weight: 444.37

Store at low temperature

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	MK-5046 is a novel BRS-3 agonist, binding to BRS-3 with high affinity (mouse $K_i = 1.6$ nM, human $K_i = 25$ nM).
Targets(IC <sub>50</sub> )	Bombesin Receptor
Kinase Assay	Raf-MEK-ERK cascade kinase assay: Non-phosphorylated myelin basic protein (MBP) is coated onto an ELISA plate, and the active form of B-Raf/c-Raf is mixed with unphosphorylated MEK1/MEK2 and ERERK2 in 10 $\mu$ M ATP and 12.5 mM MgCl <sub>2</sub> containing MOPS buffer in the presence of various concentrations of GSK1120212. The phosphorylation of MBP is detected by the anti-phospho-MBP antibody.

## Solubility Information

Solubility	DMSO: 10 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: 1 mg/mL (2.25 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.2504 mL	11.2519 mL	22.5038 mL
5 mM	0.4501 mL	2.2504 mL	4.5008 mL
10 mM	0.225 mL	1.1252 mL	2.2504 mL
50 mM	0.045 mL	0.225 mL	0.4501 mL

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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

Guan XM, et al. J Pharmacol Exp Ther. 2011 Feb;336(2):356-364.

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