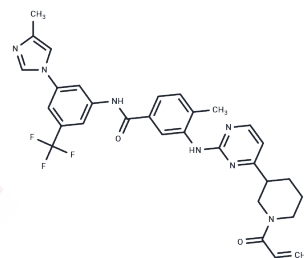


M443

## Chemical Properties

CAS No. :	1820684-31-8
Formula:	C <sub>31</sub> H <sub>30</sub> F <sub>3</sub> N <sub>7</sub> O <sub>2</sub>
Molecular Weight:	589.61
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	M443 is a potent small molecule inhibitor of MRK that inhibits radiation-induced activation of p38 and Chk2 and can be used in cancer research.
Targets(IC50)	MLK,Others,Chk,p38 MAPK
In vitro	The osmotic pumps were filled with a solution of 0.05 mg/ml M443 or vehicle [0.01% DMSO in PBS], and implanted into the backs of animals. The results showed that treatment with M443 alone extended the survival of mice by 5.5 days.
In vivo	As a time-dependent irreversible MRK inhibitor, M443 (500 nM) significantly inhibits the activation of MRK, Chk2, and p38 stimulated by IR.

## Solubility Information

Solubility	DMSO: 30 mg/mL (50.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.696 mL	8.4802 mL	16.9604 mL
5 mM	0.3392 mL	1.696 mL	3.3921 mL
10 mM	0.1696 mL	0.848 mL	1.696 mL
50 mM	0.0339 mL	0.1696 mL	0.3392 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

Markowitz D, et al. Pharmacological Inhibition of the Protein Kinase MRK/ZAK Radiosensitizes Medulloblastoma. Mol Cancer Ther. 2016 Aug;15(8):1799-808.

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