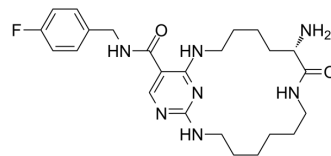


## UNC2541

Cat. No.:	HY-125510		
CAS No.:	1612782-86-1		
Molecular Formula:	C <sub>24</sub> H <sub>34</sub> FN <sub>7</sub> O <sub>2</sub>		
Molecular Weight:	471.57		
Target:	TAM Receptor		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 10 mg/mL (21.21 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1206 mL	10.6029 mL	21.2058 mL
	5 mM	0.4241 mL	2.1206 mL	4.2412 mL
	10 mM	0.2121 mL	1.0603 mL	2.1206 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

UNC2541 is a potent and Mer tyrosine kinase (MerTK)-specific inhibitor, binds in the MerTK ATP pocket, with an IC<sub>50</sub> of 4.4 nM, more selective over Axl, Tyro3 and Flt3. UNC2541 inhibits phosphorylated MerTK (pMerTK; EC<sub>50</sub>, 510 nM)<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

UNC2541 is a potent and Mer tyrosine kinase (MerTK)-specific inhibitor, binds in the MerTK ATP pocket, with an IC<sub>50</sub> of 4.4 nM, more selective over Axl (IC<sub>50</sub>, 120 nM), Tyro3 (IC<sub>50</sub>, 220 nM) and Flt3 (IC<sub>50</sub>, 320 nM). UNC2541 inhibits phosphorylated MerTK (pMerTK; EC<sub>50</sub>, 510 nM)<sup>[1]</sup>.

### REFERENCES

[1]. McIver AL, et al. Discovery of Macrocyclic Pyrimidines as MerTK-Specific Inhibitors. ChemMedChem. 2017 Feb 3;12(3):207-213.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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