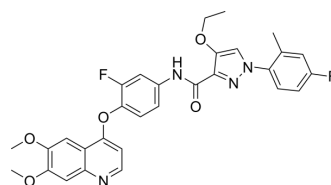


## LDC1267

<b>Cat. No.:</b>	HY-12494		
<b>CAS No.:</b>	1361030-48-9		
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>26</sub> F <sub>2</sub> N <sub>4</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	560.55		
<b>Target:</b>	TAM Receptor		
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



## SOLVENT & SOLUBILITY

### In Vitro

DMSO : 50 mg/mL (89.20 mM; Need ultrasonic)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7840 mL	8.9198 mL	17.8396 mL
	5 mM	0.3568 mL	1.7840 mL	3.5679 mL
	10 mM	0.1784 mL	0.8920 mL	1.7840 mL

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

### In Vivo

- Add each solvent one by one: 50% PEG300 >> 50% saline  
Solubility: 10 mg/mL (17.84 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.46 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (4.46 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (4.46 mM); Clear solution

## BIOLOGICAL ACTIVITY

### Description

LDC1267 is a highly selective TAM (Tyro3, Axl and Mer) kinase inhibitor with IC<sub>50</sub>s of <5 nM/8 nM/29 nM for Tyro3,Axl and Mer respectively<sup>[1]</sup>.

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

IC<sub>50</sub>: <5 nM/8 nM/29 nM(Tyro3/Axl/Mer)<sup>[1]</sup>

<b>In Vitro</b>	LDC1267 (up to 30 $\mu$ M; 72 hours) moderately affects proliferation of 11 cell lines with an average $IC_{50}$ value for those 11 cell lines is $\sim 15\mu$ M <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	LDC1267 (20 mg/kg; i.p.; every 12 hours for 14 day) markedly reduces metastatic spreading of melanomas <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	C57BL/6J wild type mice (8-12 weeks old syngeneic bearing B16F10 cells) <sup>[1]</sup>
Dosage:	20mg/kg
Administration:	Intraperitoneal injection; every 12 hours for 14 days
Result:	Markedly reduced metastatic spreading of melanomas.

## CUSTOMER VALIDATION

- Theranostics. 2018 Jul 30;8(15):4262-4278.
- Cell Mol Life Sci. 2022 May 27;79(6):316.
- FEBS J. 2021 Dec 17.
- Biology (Basel). 2022, 11(7), 1059.
- Nencki Institute of Experimental Biology. The Laboratory of Cell Biology of the International Institute of Molecular and Cell Biology in Warsaw. 2022 Oct.

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## REFERENCES

[1]. Paolino M, et al. The E3 ligase Cbl-b and TAM receptors regulate cancer metastasis via natural killer cells. Nature. 2014 Mar 27;507(7493):508-12.

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

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