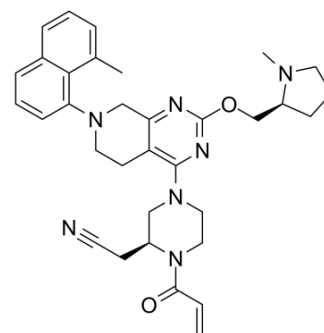


## MRTX-1257

<b>Cat. No.:</b>	HY-114436
<b>CAS No.:</b>	2206736-04-9
<b>Molecular Formula:</b>	C <sub>33</sub> H <sub>39</sub> N <sub>7</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	565.71
<b>Target:</b>	Ras
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 55 mg/mL (97.22 mM; Need ultrasonic)					
	H <sub>2</sub> O : < 0.1 mg/mL (insoluble)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.7677 mL	8.8385 mL	17.6769 mL
<b>5 mM</b>			0.3535 mL	1.7677 mL	3.5354 mL	
<b>10 mM</b>		0.1768 mL	0.8838 mL	1.7677 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.42 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.42 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.42 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	MRTX-1257 is a selective, irreversible, covalent and orally active KRAS G12C inhibitor, with an IC <sub>50</sub> of 900 pM for KRAS dependent ERK phosphorylation in H358 cells <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	KRAS(G12C)
<b>In Vivo</b>	MRTX-1257 (1 mg/kg, 3 mg/kg, 10 mg/kg, 30 mg/kg and 100 mg/kg, orally, daily for 30 days) shows rapid tumor growth inhibition at all dose groups in MIA PaCa-2 G12C Xenograft model in mice <sup>[1]</sup> . MRTX-1257 shows sustained regression at 3,10, 30, and 100 mg/kg dose groups <sup>[1]</sup> .

MRTX-1257 dosed of 100 mg/kg daily leads to complete responses that are maintained >70 days after cessation of treatment [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	MIA PaCa-2 G12C Xenograft Model (mouse) <sup>[1]</sup> .
Dosage:	1 mg/kg, 3 mg/kg, 10 mg/kg, 30 mg/kg and 100 mg/kg.
Administration:	Orally daily for 30 days.
Result:	Showed rapid tumor growth inhibition at all dose groups. Showed sustained regression at 3,10, 30, and 100 mg/kg dose groups. 100 mg/kg daily led to complete responses that are maintained >70 days after cessation of treatment.

## REFERENCES

[1]. Matthew et al. Structure-Based Drug Discovery of MRTX1257, a Selective, Covalent KRAS G12C Inhibitor with Oral Activity in Animal Models of Cancer.

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

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