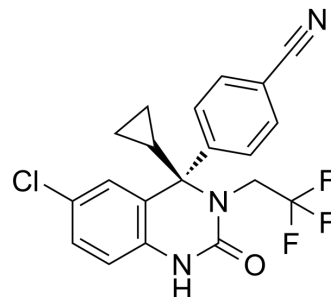


## TTA-Q6

<b>Cat. No.:</b>	HY-10388		
<b>CAS No.:</b>	910484-28-5		
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>15</sub> ClF <sub>3</sub> N <sub>3</sub> O		
<b>Molecular Weight:</b>	405.8		
<b>Target:</b>	Calcium Channel		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 125 mg/mL (308.03 mM; Need ultrasonic)					
	<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>		2.4643 mL	12.3213 mL	24.6427 mL
		<b>5 mM</b>		0.4929 mL	2.4643 mL	4.9285 mL
	<b>10 mM</b>		0.2464 mL	1.2321 mL	2.4643 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: ≥ 2.08 mg/mL (5.13 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.13 mM); Clear solution					

## BIOLOGICAL ACTIVITY

<b>Description</b>	TTA-Q6 is a selective T-type Ca <sup>2+</sup> channel antagonist, which can be used in the research of neurological disease <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	T-type Ca <sup>2+</sup> channel <sup>[1]</sup>
<b>In Vitro</b>	TTA-Q6 is a selective T-type Ca <sup>2+</sup> channel antagonist, with 14 nM and 590 nM in FLIPR depolarized assay and FLIPR hyperpolarized assay <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

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[1]. Schlegel KA, et al. Discovery and expanded SAR of 4,4-disubstituted quinazolin-2-ones as potent T-type calcium channel antagonists. *Bioorg Med Chem Lett.* 2010 Sep 1;20(17):5147-52.

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

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