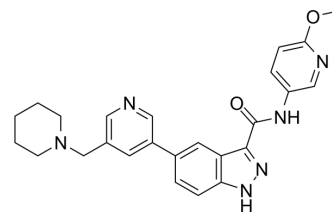


## Teplinovivint

<b>Cat. No.:</b>	HY-137454	
<b>CAS No.:</b>	1428064-91-8	
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>26</sub> N <sub>6</sub> O <sub>2</sub>	
<b>Molecular Weight:</b>	442.51	
<b>Target:</b>	Wnt; $\beta$ -catenin	
<b>Pathway:</b>	Stem Cell/Wnt	
<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 : 83.33 mg/mL (188.31 mM; Need ultrasonic)				
		<b>Solvent</b>	<b>Mass</b>		
		<b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
	<b>Preparing Stock Solutions</b>	<b>1 mM</b>	2.2598 mL	11.2992 mL	22.5984 mL
		<b>5 mM</b>	0.4520 mL	2.2598 mL	4.5197 mL
<b>10 mM</b>		0.2260 mL	1.1299 mL	2.2598 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: $\geq$ 2.08 mg/mL (4.70 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- $\beta$ -CD in saline) Solubility: 2.08 mg/mL (4.70 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Teplinovivint is a potent wnt/ $\beta$ -catenin signaling pathway inhibitor. Teplinovivint has anti-inflammatory activity and has the potential for tendinopathy research <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Wnt
<b>In Vitro</b>	<p>Teplinovivint (compound 175; 0.0003-10 <math>\mu</math>M) inhibits Wnt/<math>\beta</math>-catenin activity in human colorectal cancer cell line (SW480) in a dose-dependent manner (EC<sub>50</sub>=152.9 nM)<sup>[1]</sup>.</p> <p>Teplinovivint inhibits SW480 cells (EC<sub>50</sub>=25 nM) and primary human mesenchymal stem cells (hMSCs; EC<sub>50</sub>=10.377 <math>\mu</math>M)<sup>[1]</sup>.</p> <p>Teplinovivint (5.8, 10.8, 21.7, 41.7, 83.3, 166.6, 333.3, 750 nM) induced the expression of SCXA, TenascinC and Tenomodulin, in a dose-dependent manner with an EC<sub>50</sub> between 139-189 nM<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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**In Vivo**

Teplinovivint (compound 175; 10 mg/ml; once daily for 21 days via topical application) causes amelioration of inflammation as well as tendon degeneration. Teplinovivint results in a decrease of aninflammatory plasma biomarker, KC/GRO in the Collagenase-induced Tendon Injury Model<sup>[1]</sup>.

Teplinovivint (1 mg/ml with 1% BA) has a T<sub>max</sub> of 1 hours in plasma<sup>[1]</sup>.

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

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**REFERENCES**

[1]. Vishal DESHMUKH, et al. Methods of using indazole-3-carboxamides and their use as wnt/b-catenin signaling pathway inhibitors. WO2018075858A1.

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

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