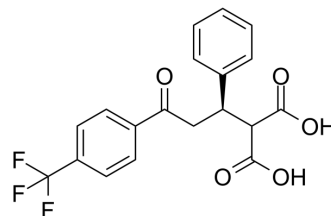


## (R)-PS210

<b>Cat. No.:</b>	HY-13856		
<b>CAS No.:</b>	1410101-89-1		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>15</sub> F <sub>3</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	380.31		
<b>Target:</b>	PDK-1		
<b>Pathway:</b>	PI3K/Akt/mTOR		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 230 mg/mL (604.77 mM; Need ultrasonic)			
		<b>Solvent</b>	<b>Mass</b>	
		<b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>
	<b>Preparing Stock Solutions</b>		<b>10 mg</b>	
	<b>1 mM</b>	2.6294 mL	13.1472 mL	26.2943 mL
	<b>5 mM</b>	0.5259 mL	2.6294 mL	5.2589 mL
	<b>10 mM</b>	0.2629 mL	1.3147 mL	2.6294 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 5.75 mg/mL (15.12 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 5.75 mg/mL (15.12 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 5.75 mg/mL (15.12 mM); Clear solution</li> </ol>			

### BIOLOGICAL ACTIVITY

<b>Description</b>	(R)-PS210, the R enantiomer of PS210 (compound 4h-eutomer), is a substrate-selective allosteric activator of PDK1 with an AC <sub>50</sub> value of 1.8 μM. (R)-PS210 targets to the PIF-binding pocket of PDK1. PIF: The protein kinase C-related kinase 2 (PRK2)-interacting fragment <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	AC <sub>50</sub> : 1.8 μM (PDK1) <sup>[1]</sup>
<b>In Vitro</b>	(R)-PS210 displays an AC <sub>50</sub> value of 1.8 μM towards PDK1 in a Cell-Free Kinase Activity Assay. And the maximum activation of

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PDK1 compared to DMSO control of (R)-PS210 is 5.5 fold<sup>[1]</sup>.

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

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## REFERENCES

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[1]. Wilhelm A, et al. 2-(3-Oxo-1,3-diphenylpropyl)malonic acids as potent allosteric ligands of the PIF pocket of phosphoinositide-dependent kinase-1: development and prodrug concept. *J Med Chem.* 2012 Nov 26;55(22):9817-30.

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

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