



# SZABO SCANDIC

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### SZABO-SCANDIC HandelsgmbH

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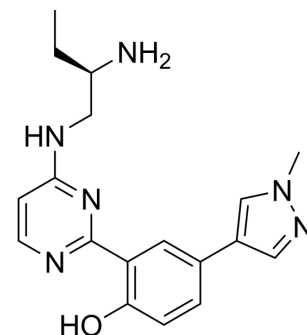
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## CRT0066101

<b>Cat. No.:</b>	HY-15698		
<b>CAS No.:</b>	956123-34-5		
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>22</sub> N <sub>6</sub> O		
<b>Molecular Weight:</b>	338.41		
<b>Target:</b>	PKD; Apoptosis; Pim		
<b>Pathway:</b>	Apoptosis; JAK/STAT Signaling		
<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 : 100 mg/mL (295.50 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	2.9550 mL	14.7750 mL	29.5500 mL
5 mM		0.5910 mL	2.9550 mL	5.9100 mL	
	10 mM	0.2955 mL	1.4775 mL	2.9550 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 (7.39 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.39 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	CRT0066101 is a potent and orally active PKD inhibitor with IC <sub>50</sub> values of 1 nM, 2.5 nM and 2 nM for PKD1, PKD2, and PKD3, respectively <sup>[1]</sup> . CRT0066101 is also a potent PIM2 inhibitor with an IC <sub>50</sub> of ~135.7 nM. CRT0066101 has anticancer effects <sup>[2]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	PKD1 1 nM (IC <sub>50</sub> )	PKD2 2.5 nM (IC <sub>50</sub> )	PKD3 2 nM (IC <sub>50</sub> )	PIM2 135.7 nM (IC <sub>50</sub> )
<b>In Vitro</b>	CRT0066101 (5 μM; 1 h) blocks both the basal and NT-induced pS916-PKD1/2 (activated PKD1/2) in Panc-1 and Panc-28 cells.			

CRT0066101 abrogates NT-induced phosphorylation of Hsp27 (pS82-Hsp27), attenuates PKD1-mediated NF-κB activation, and abrogates expression of NF-κB-dependent proliferative and pro-survival proteins<sup>[1]</sup>.

CRT0066101 significantly inhibits Panc-1 cell proliferation, with an IC<sub>50</sub> value of 1 μM. CRT0066101 results in a 6-10 fold induction of apoptosis in Panc-1 cells. CRT0066101 significantly reduces cell proliferation of Colo357, Panc-1, MiaPaCa-2, and AsPC-1 cells but had a modest effect in Capan-2 cells<sup>[1]</sup>.

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

Western Blot Analysis<sup>[1]</sup>

Cell Line:	Panc-1 and Panc-28 cells stimulation with neurotensin (NT)
Concentration:	5 μM
Incubation Time:	1 h
Result:	Blocked both the basal and NT-induced pS916-PKD1/2 (activated PKD1/2).

#### In Vivo

CRT0066101 (80 mg/kg/day; oral gavage; once daily; for 21 days) in Panc-1 orthotopic model potentially blocks tumor growth in vivo<sup>[1]</sup>.

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

Animal Model:	CR-UK nu/nu mice injected with Panc-1 cells <sup>[1]</sup>
Dosage:	80 mg/kg/day
Administration:	Oral gavage; once daily; for 21 days
Result:	Potently blocked tumor growth in vivo.

## CUSTOMER VALIDATION

- Exp Mol Med. 2022 Sep 21.
- Int Immunopharmacol. 2023 May 12;120:110240.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Harikumar KB, et al. A novel small-molecule inhibitor of protein kinase D blocks pancreatic cancer growth in vitro and in vivo. Mol Cancer Ther. 2010 May;9(5):1136-46.

[2]. Xi Chen, et al. Identification and assessment of new PIM2 inhibitors for treating hematologic cancers: A combined approach of energy-based virtual screening and machine learning evaluation. Arch Pharm (Weinheim). 2024 Jan 23:e2300516.

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

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