



# SZABO SCANDIC

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

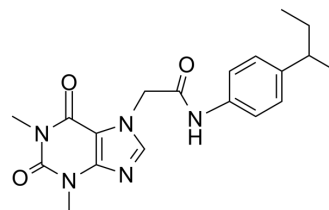
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## Chembridge-5861528

<b>Cat. No.:</b>	HY-15065		
<b>CAS No.:</b>	332117-28-9		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>23</sub> N <sub>5</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	369.42		
<b>Target:</b>	TRP Channel		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 120 mg/mL (324.83 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.7069 mL	13.5347 mL	27.0695 mL
		5 mM	0.5414 mL	2.7069 mL	5.4139 mL
10 mM		0.2707 mL	1.3535 mL	2.7069 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; 90% (20% SBE-β-CD in saline) Solubility: ≥ 3 mg/mL (8.12 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 3 mg/mL (8.12 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Chembridge-5861528 (TCS 5861528) is a potent TRPA1 channel antagonist that antagonizes similarly allyl isothiocyanate- and 4-HNE-evoked TRPA1 responses, with IC <sub>50</sub> values of 14.3 μM and 18.7 μM, respectively. Chembridge-5861528 shows antihypersensitivity activities <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	TRPA1 14.3 μM (IC <sub>50</sub> , allyl isothiocyanate-evoked TRPA1 response)	TRPA1 18.7 μM (IC <sub>50</sub> , 4-HNE-evoked TRPA1 response)
<b>In Vitro</b>	Chembridge-5861528 (TCS 5861528) shows no TRPA1 or TRPV1 channel agonism and no TRPV1 channel antagonism up to a	

dose of 100  $\mu$ M<sup>[1]</sup>.

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

#### In Vivo

Chembridge-5861528 (TCS 5861528) (30 mg/kg; i.p.; twice daily for a week) significantly attenuates development of mechanical hypersensitivity in [Streptozocin](#) (HY-13753)-induced diabetes mellitus rat model<sup>[1]</sup>.

Chembridge-5861528 (3 and 10  $\mu$ g/rat; i.t.; once) attenuates [Capsaicin](#) (HY-10448)-induced blood flow increase in a dose-related fashion<sup>[2]</sup>.

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

Animal Model:	Male Hannover-Wistar rats, Streptozocin-induced diabetes mellitus model <sup>[1]</sup>
Dosage:	30 mg/kg
Administration:	Intraperitoneal injection, twice daily for a week
Result:	Significantly attenuated development of mechanical hypersensitivity as revealed by the paw pressure test ( $F^{1,80} = 31.4$ , $P < 0.0001$ ).

Animal Model:	Male Hannover-Wistar rats (220-260 g), Capsaicin-induced neurogenic inflammation model <sup>[2]</sup>
Dosage:	0, 3, and 10 $\mu$ g/rat
Administration:	Intrathecal injection, 20 min before Capsaicin injection
Result:	Significantly decreased the blood flow at 10 $\mu$ g.

## REFERENCES

[1]. Wei H, et al. Attenuation of mechanical hypersensitivity by an antagonist of the TRPA1 ion channel in diabetic animals. *Anesthesiology*. 2009 Jul;111(1):147-54.

[2]. Wei H, et al. Spinal TRPA1 ion channels contribute to cutaneous neurogenic inflammation in the rat. *Neurosci Lett*. 2010 Aug 2;479(3):253-6.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA