



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Cesium chloride

Cat. No.:	HY-107754
CAS No.:	7647-17-8
Molecular Formula:	ClCs
Molecular Weight:	168.36
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 100 mg/mL (593.97 mM)  
\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		5.9397 mL	29.6983 mL	59.3965 mL
	5 mM		1.1879 mL	5.9397 mL	11.8793 mL
	10 mM		0.5940 mL	2.9698 mL	5.9397 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Cesium chloride is a blocker of potassium channel. Cesium chloride prevents the decrease of Na<sup>+</sup> transport produced by Alloxan<sup>[1][2]</sup>. Cesium chloride has induced cardiac arrhythmias, including torsade de pointes in animal models<sup>[3]</sup>.

#### In Vitro

Cesium chloride (CsCl) decreases the increment of membrane potential, the elevation of intracellular calcium and the upregulation of NOS, ET-1 and VEGF expressions, which are induced by Acrolein<sup>[3]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

Cesium Chloride (12 mg/100 g body weight, daily for 30 days; i.p.; male Wistar rats- BOO model) could significantly weaken the effect of XJT (traditional Chinese medicine) on not only the expression of these potassium channels but also the bladder weight, urodynamics, and oxidative stress<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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- [1]. Sun J, Shen W, et al. A Chinese Medicine Formula "Xian-Jia-Tang" for Treating Bladder Outlet Obstruction by Improving Urodynamics and Inhibiting Oxidative Stress through Potassium Channels. *Evid Based Complement Alternat Med.* 2017;2017:8147258.
- [2]. Soto C, et al. Alloxan decreases intracellular potassium content of the isolated frog skin epithelium. *Comp Biochem Physiol C Toxicol Pharmacol.* 2001;130(1):19-27.
- [3]. Ouyang JS, Li YP, Li CY, et al. Mitochondrial ROS-K<sup>+</sup> channel signaling pathway regulated secretion of human pulmonary artery endothelial cells. *Free Radic Res.* 2012;46(12):1437-1445.
- [4]. O'Brien CE, et al. Cesium-induced QT-interval prolongation in an adolescent. *Pharmacotherapy.* 2008;28(8):1059-1065.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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