## Zegocractin

Cat. No.:	HY-101942		
CAS No.:	1713240-67-5		
Molecular Formula:	$C_{19}H_{11}CIF_3N_3O_3$		
Molecular Weight:	421.76		
Target:	CRAC Channel		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

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### SOLVENT & SOLUBILITY

In Vitro	0,	DMSO : ≥ 100 mg/mL (237.10 mM) * "≥" means soluble, but saturation unknown.						
		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	2.3710 mL	11.8551 mL	23.7102 mL			
		5 mM	0.4742 mL	2.3710 mL	4.7420 mL			
		10 mM	0.2371 mL	1.1855 mL	2.3710 mL			
	Please refer to the sol	ubility information to select the ap	propriate solvent.					
In Vivo		1. Add each solvent one by one: 70% PEG300 >> 30% (20% SBE-β-CD in saline) Solubility: 10 mg/mL (23.71 mM); Suspended solution; Need ultrasonic						
		2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (4.93 mM); Suspended solution; Need ultrasonic and warming						
		3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (4.93 mM); Suspended solution; Need ultrasonic and warming						
		4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.93 mM); Clear solution						

<b>BIOLOGICAL ACTIV</b>	ТТҮ
Description	Zegocractin (CM-4620) is a calcium-release activated calcium-channel (CRAC channel) inhibitor, with IC <sub>50</sub> s of 119 nM and nM for Orai1/STIM1 and Orai2/STIM1 channels, respectively <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC50: 119 nM (Orai 1/STIM1), 895 nM (Orai 1/STIM1) <sup>[1]</sup>

# Product Data Sheet

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In Vitro	It is determined that Zegocractin (compound 1) inhibits Orai 1/STIM1 channels with an IC <sub>50</sub> of 119 nM, and Orai2/STIM1 channels with an IC <sub>50</sub> of 895 nM. It is more potent on Orai1 than Orai2-type CRAC channels. In human PBMCs, Zegocractin potently inhibits release of multiple cytokines which play important roles in T cells (IC <sub>50</sub> s, IFN γ: 138 nM, IL-4: 879 nM, IL-6: 135 nM, IL-1β: 240 nM, IL-10: 303 nM, TNFα: 225 nM, IL-2: 59 nM, IL-17 120 nM) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Mouse PACs are treated with CRAC inhibitors Zegocractin or GSK-7975A and monitored for their rate of Calcium uptake. Both CRAC inhibitors reduce the rate of store-operated Calcium entry into the ER to 50% of controllevels upon treatment with 700 nM of inhibitor. Zegocractin blocks 100% of reuptake at 10 mM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Nat Aging. 2023 Jun 5.
- Nat Commun. 2023 Mar 8;14(1):1286.
- Cell Commun Signal. 2024 Feb 1;22(1):92.
- Cell Commun Signal. 2024 Feb 1;22(1):92.
- J Invest Dermatol. 2023 Sep 29:S0022-202X(23)02603-9.

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#### REFERENCES

[1]. ARYL SULFONOHYDRAZIDES. WO2016/138472Al.

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