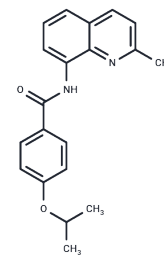


CDN1163

Chemical Properties

CAS No. : 892711-75-0
 Formula: C₂₀H₂₀N₂O₂
 Molecular Weight: 320.39
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	CDN1163 is a small molecule activator of sarco/endoplasmic reticulum Ca ²⁺ -ATPase (SERCA).
Targets(IC50)	Calcium Channel
In vivo	CDN1163, which markedly lowered fasting blood glucose, improved glucose tolerance, and ameliorated hepatosteatosis but did not alter glucose levels or body weight in lean controls. Importantly, CDN1163-treated ob/ob mice maintained euglycemia comparable with that of lean mice for >6 weeks after cessation of CDN1163 administration[1].

Solubility Information

Solubility	DMSO: 125 mg/mL (390.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.24 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1212 mL	15.606 mL	31.212 mL
5 mM	0.6242 mL	3.1212 mL	6.2424 mL
10 mM	0.3121 mL	1.5606 mL	3.1212 mL
50 mM	0.0624 mL	0.3121 mL	0.6242 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kang S , Dahl R , Hsieh W , et al. Small Molecular Allosteric Activator of the Sarco/Endoplasmic Reticulum Ca²⁺-ATPase (SERCA) Attenuates Diabetes and Metabolic Disorders[J]. Journal of Biological Chemistry, 2015:jbc.M115.705012.

Rizwan, Qaisar, Shylesh, et al. Restoration of SERCA ATPase prevents oxidative stress-related muscle atrophy and weakness.[J]. Redox biology, 2018.

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