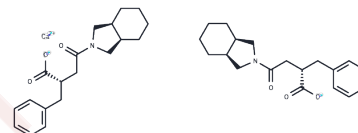


## Mitiglinide calcium hydrate

### Chemical Properties

CAS No. : 207844-01-7  
 Formula: C<sub>38</sub>H<sub>52</sub>CaN<sub>2</sub>O<sub>8</sub>  
 Molecular Weight: 704.91  
 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	Mitiglinide calcium hydrate (S-21403 calcium hydrate) is a drug for the treatment of type 2 diabetes. Mitiglinide is thought to stimulate insulin secretion by closing the ATP-sensitive K(+) K(ATP) channels in pancreatic beta-cells. Mitiglinide belongs to the meglitinide class of blood glucose-lowering drugs and is currently co-marketed in Japan by Kissei and Takeda.
Targets(IC50)	Potassium Channel

### Solubility Information

Solubility	DMSO: 25 mg/mL (35.47 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 (2.84 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.4186 mL	7.0931 mL	14.1862 mL
5 mM	0.2837 mL	1.4186 mL	2.8372 mL
10 mM	0.1419 mL	0.7093 mL	1.4186 mL
50 mM	0.0284 mL	0.1419 mL	0.2837 mL

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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

Malaisse WJ. Expert Opin PharmacOther. 2008 Oct;9(15):2691-8.

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