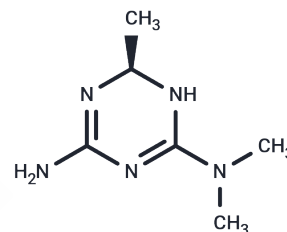


## Imeglimin

## Chemical Properties

CAS No. :	775351-65-0
Formula:	C <sub>6</sub> H <sub>13</sub> N <sub>5</sub>
Molecular Weight:	155.205
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	Imeglimin (EMD 387008) is an orally available antidiabetic compound that enhances mitochondrial function, enhances insulin secretion, promotes $\beta$ -cell proliferation and improves pancreatic $\beta$ -cell survival in mice.
Targets(IC50)	Reactive Oxygen Species, Mitochondrial Metabolism, ROS
In vitro	In Human endothelial cells (HMEC-1), Imeglimin (100 $\mu$ M and 10 mM; 100 $\mu$ M for 24 hours, 10 mM for 4 hours) can prevent cell death[2].
In vivo	In 4-week-old male C57BL/6J OlaHsd mice, oral administration of Imeglimin (200 mg/kg; b.i.d.; for 6 weeks) caused a slight decrease in body weight and food intake, associated with some diarrhea, but these effects were only observed during the first few days of treatment[1].

## Solubility Information

Solubility	DMSO: Soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.4429 mL	32.2144 mL	64.4288 mL
5 mM	1.2886 mL	6.4429 mL	12.8858 mL
10 mM	0.6443 mL	3.2214 mL	6.4429 mL
50 mM	0.1289 mL	0.6443 mL	1.2886 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

Vial G, et al. Ibiglimin normalizes glucose tolerance and insulin sensitivity and improves mitochondrial function in liver of a high-fat, high-sucrose diet mice model. Diabetes. 2015 Jun;64(6):2254-64.

Detaille D, et al. Ibiglimin prevents human endothelial cell death by inhibiting mitochondrial permeability transition without inhibiting mitochondrial respiration. Cell Death Discov. 2016 Jan 18;2:15072.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481