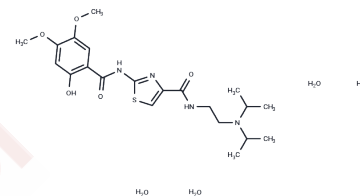


## Acotiamide monohydrochloride trihydrate

## Chemical Properties

CAS No. :	773092-05-0
Formula:	C <sub>21</sub> H <sub>37</sub> ClN <sub>4</sub> O <sub>8</sub> S
Molecular Weight:	541.06
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	Acotiamide monohydrochloride trihydrate (Z-338 HCl) is the hydrochloride salt form of acotiamide, a prokinetic agent with gastrointestinal (GI) motility-enhancing activity. Although the exact mechanism by which acotiamide exerts its effect has yet to be fully elucidated, this agent appears to inhibit acetylcholinesterase (AChE), an enzyme responsible for the breakdown of acetylcholine (ACh). Increased ACh concentrations lead to an improvement of gastric emptying and GI motility and eventually to a reduction of dyspepsia symptoms.
Targets(IC50)	Cholinesterase (ChE)

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (50.83 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 (3.7 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	1.8482 mL	9.2411 mL	18.4822 mL
5 mM	0.3696 mL	1.8482 mL	3.6964 mL
10 mM	0.1848 mL	0.9241 mL	1.8482 mL
50 mM	0.037 mL	0.1848 mL	0.3696 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

Kawachi M, et al. Eur J Pharmacol. 2011 Sep;666(1-3):218-25.

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