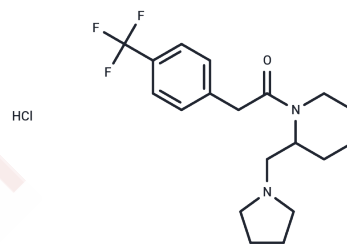


## ZT 52656A hydrochloride

## Chemical Properties

CAS No. :	115730-24-0
Formula:	C <sub>19</sub> H <sub>26</sub> ClF <sub>3</sub> N <sub>2</sub> O
Molecular Weight:	390.87
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	ZT 52656A hydrochloride belongs to synthetic small molecule compounds and is a highly selective kappa opioid receptor (KOR) agonist with good receptor selectivity and potential peripheral action characteristics. This compound effectively prevents or significantly alleviates ocular pain through KOR activation, and can be used in pain-related mechanism research.
Targets(IC50)	Opioid Receptor

## Solubility Information

Solubility	DMSO: 64 mg/mL (163.74 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 (5.12 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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	1mg	5mg	10mg
1 mM	2.5584 mL	12.792 mL	25.584 mL
5 mM	0.5117 mL	2.5584 mL	5.1168 mL
10 mM	0.2558 mL	1.2792 mL	2.5584 mL
50 mM	0.0512 mL	0.2558 mL	0.5117 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

Daniel A. Gamache. Topical use of  $\kappa$  opioid agonists to treat ocular pain. Patent US 6191126 B

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