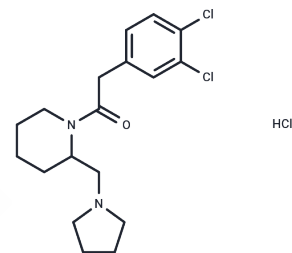


## BRL 52537 hydrochloride

## Chemical Properties

CAS No. :	112282-24-3
Formula:	C <sub>18</sub> H <sub>25</sub> Cl <sub>3</sub> N <sub>2</sub> O
Molecular Weight:	391.76
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	BRL 52537 hydrochloride is a selective and specific KOR agonist which has been implicated in neuroprotection from ischemic neuronal injury[1]. It is used for research into potential treatments for stroke and heart attack as well as more general brain research.
Targets(IC50)	Opioid Receptor
In vivo	In rats treated with BRL 52537 during ischemia and early reperfusion, infarct volume was significantly attenuated in cortex and in caudoputamen[2].

## Solubility Information

Solubility	DMSO: 3.67 mg/mL (9.37 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5526 mL	12.7629 mL	25.5258 mL
5 mM	0.5105 mL	2.5526 mL	5.1052 mL
10 mM	0.2553 mL	1.2763 mL	2.5526 mL
50 mM	0.0511 mL	0.2553 mL	0.5105 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

Zhang Z, et al. Kappa-opioid receptor selectivity for ischemic neuroprotection with BRL 52537 in rats. *Anesth Analg.* 2003 Dec;97(6):1776-1783.

Goyagi T, et al. Neuroprotective kappa-opioid receptor agonist BRL 52537 attenuates ischemia-evoked nitric oxide production in vivo in rats. *Stroke.* 2003 Jun;34(6):1533-8.

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