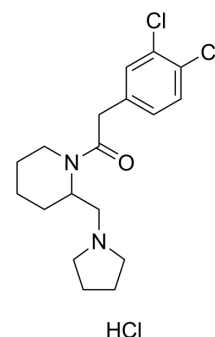


BRL 52537 hydrochloride

Cat. No.:	HY-101079
CAS No.:	112282-24-3
Molecular Formula:	C ₁₈ H ₂₅ Cl ₃ N ₂ O
Molecular Weight:	391.76
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

Methanol : 25 mg/mL (63.81 mM; Need ultrasonic)
DMSO : 5 mg/mL (12.76 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

BRL 52537 hydrochloride is a highly selective κ-Opioid receptor (KOR) agonist with K_is of 0.24 nM and 1560 nM for κ and μ subtypes, respectively. BRL 52537 hydrochloride decreases ischemia-evoked NO production as a potential mechanism of neuroprotection. BRL 52537 hydrochloride attenuates early stroke damage^[1].

IC₅₀ & Target

Ki: 0.24 nM (κ-Opioid receptor) and 1560 nM (μ-Opioid receptor)^[1]

REFERENCES

[1]. Toru Goyagi, 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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