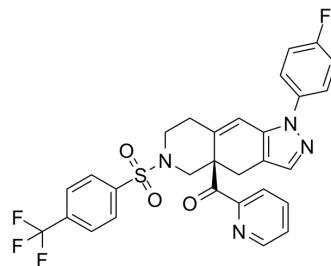


Dazucorilant

Cat. No.:	HY-132811
CAS No.:	1496508-34-9
Molecular Formula:	C ₂₉ H ₂₂ F ₄ N ₄ O ₃ S
Molecular Weight:	582.57
Target:	Glucocorticoid Receptor
Pathway:	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor
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	DMSO : 100 mg/mL (171.65 mM); ultrasonic and warming and heat to 80°C					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.7165 mL	8.5827 mL	17.1653 mL
		5 mM		0.3433 mL	1.7165 mL	3.4331 mL
10 mM		0.1717 mL	0.8583 mL	1.7165 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.29 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.29 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Dazucorilant (CORT113176) is a selective and high affinity non-steroidal glucocorticoid receptor (GR) modulator with a K _i value ≈ 1 nM in vitro. Dazucorilant can be used for the research of neurological disorders ^{[1][2]} .
IC₅₀ & Target	GR ^[1]
In Vitro	In HepG2 human cells or in human hepatocytes, Dazucorilant acts as full antagonist since it is able to prevent the dexamethasone-induced increase in TAT activity and to induce non-measurable agonist activity in the absence of dexamethasone ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Dazucorilant (30 mg/kg/day; s.c.) makes mice show reversed abnormalities of motoneurons and down-regulated

proinflammatory mediators and glial reactivity^[1].

Dazucorilant (5, 10 or 20 mg/kg; i.p.) reverses hippocampal amyloid- β peptide generation, neuroinflammation and apoptotic processes, restores the hippocampal levels of synaptic markers, reestablishes basal plasma levels of glucocorticoids and improves cognitive function at a dose of 10 mg/kg^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Wobbler mice (five-month-old) ^[1]
Dosage:	30 mg/kg/day
Administration:	S.c.
Result:	Wobbler mice showed reversed abnormalities of motoneurons and down-regulated proinflammatory mediators and glial reactivity.

Animal Model:	Adult SD male rats ^[2]
Dosage:	5, 10 or 20 mg/kg
Administration:	I.p.
Result:	Reversed hippocampal amyloid- β peptide generation, neuroinflammation and apoptotic processes, restored the hippocampal levels of synaptic markers, reestablished basal plasma levels of glucocorticoids and improved cognitive function at a dose of 10 mg/kg.

REFERENCES

[1]. Meyer M, et al. The Selective Glucocorticoid Receptor Modulator Cort 113176 Reduces Neurodegeneration and Neuroinflammation in Wobbler Mice Spinal Cord. *Neuroscience*. 2018;384:384-396.

[2]. Pineau F, et al. New selective glucocorticoid receptor modulators reverse amyloid- β peptide-induced hippocampus toxicity. *Neurobiol Aging*. 2016;45:109-122.

[3]. Canet G, et al. Central Role of Glucocorticoid Receptors in Alzheimer's Disease and Depression. *Front Neurosci*. 2018;12:739. Published 2018 Oct 16.

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

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