Product Data Sheet

Product Name: Dazucorilant
Cat. No.: GC64330

Chemical Properties

Cas. No.	1496508-34-9		
Formula	C29H22F4N4O3S	M.Wt	582.57
Solubility	DMSO : 100 mg/mL (171.65 mM; ultrasonic and warming and heat to 80°C)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Dazucorilant		

Background

Dazucorilant (CORT113176) is a selective and high affinity non-steroidal glucocorticoid receptor (GR) modulator with a Ki value <1 nM in vitro. Dazucorilant can be used for the research of neurological disorders[1][2].

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].

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].

[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.

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[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.

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