Product Data Sheet

Product Name: CHIC35
Cat. No.: GC64255

Chemical Properties

Cas. No.	848193-72-6		
Formula	C14H15ClN2O	M.Wt	262.73
Solubility		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	CHIC35		

Background

CHIC35, an analog of EX-527, is a potent and selective inhibitor of SIRT1 (IC50=0.124 μM). CHIC35 shows potential selective inhibition against SIRT1 over SIRT2 (IC50=2.8 μM) or SIRT3 (IC50>100 μM)[1]. CHIC35 has anti-inflammatory effects and can be used for CHARGE syndrome research[1][2].

CHIC-35 (0.5 μM; 16 hours) increases acetylation of histone H4 in BMDMs similar to Cambinol (200 μM)[1].CHIC-35 (5?μM; 72 hours) exhibits no significant difference in the survival of embryos at early stages[2]. Zebrafish embryos are microinjected with 2.4?ng of chd7 MO to develop to different stages of development. chd7 morphant embryos are treated with CHIC-35 from 8hpf to 24hpf. CHIC-35 (5?μM) is removed at 24hpf and embryos are incubated in fresh egg water until 4dpf. The chd7 morphant larvae has a severely reduced and disrupted pattern of cartilage elements in comparison to the control, CHIC-35 shows partial recovery in craniofacial cartilage elements[2].At 4dpf, zebrafish embryos show a well-formed lower jaw in controls, while chd7 morphants exhibits reduced lower jaw. Treatment with CHIC-35 (5?μM) rescues the expression of sox9a inchd7 morphants[2].Nearly 30% of chd7 morphant embryos (24hpf to 72hpf) shows a near complete loss of isl2a expression in the cranial region compared to 10% of the wildtype controls. CHIC-35 reduces this to 7.5% significantly. However, CHIC-35

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shows no discernible effect on the enteric neurons marked by Tg[2].

[1]. JÉrÔme Lugrin, et al. The sirtuin inhibitor cambinol impairs MAPK signaling, inhibits inflammatory and innate immune responses and protects from septic shock. Biochim Biophys Acta. 2013 Jun;1833(6):1498-510
[2]. Zainab Asad, et al. Chemical screens in a zebrafish model of CHARGE syndrome identifies small molecules that ameliorate disease-like phenotypes in embryo. Eur J Med Genet. 2020 Feb;63(2):103661.