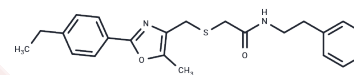


iCRT3

Chemical Properties

CAS No. :	901751-47-1
Formula:	C ₂₃ H ₂₆ N ₂ O ₂ S
Molecular Weight:	394.53
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	iCRT3 is a Wnt and β -catenin-responsive transcription inhibitor.
Targets(IC50)	Apoptosis,Wnt/beta-catenin
In vitro	Treatment with iCRT3 at doses of 12.5, 25, 50, and 75 μ M decreases TNF- α levels by 14.7%, 18.5%, 44.9% and 61.3%, respectively.
In vivo	The IL-6 levels in the 10?mg/kg iCRT3 treatment mice are lower.
Kinase Assay	In the determination of full-length baculovirus expressed Syk kinase activity, the reaction system was 25 μ L containing 25 mM Tris-HCl, pH 7.5, 5 mM β -glycerophosphate, 2 mM DTT, 0.1 mM Na ₃ VO ₄ , 10 mM MgCl ₂ , 0.5 μ M Promega PTK Biotin Peptide Substrate 1, 0.01% casein, 1, 0.01% Triton X-100, 0.25% Glycerol, and 40 mM ATP (Km for ATP). After incubation for 60 minutes at room temperature, the reaction was stopped by adding 30 mM EDTA (30 μ L of SA-APC and 4 nM PT-66 antibody). After measuring the plate, the IC ₅₀ value of the test compound was calculated using a 4-parameter linear regression algorithm.
Cell Research	Cells are seeded into 96-well plates to a density of 5 \times 10 ³ cells per well and incubated in the culture medium with iCRT3 for an additional 48 h. Cell viability and cell apoptosis assays are carried out using a Cell Counting kit-8 and a Caspase-Glo 3/7 assay kit according to the manufacturer's instructions, respectively.
Animal Research	NOD-SCID BALB/c mice inoculated A172 cells are treated with iCRT3 (5 mg/kg) diluted in PBS i.p. triweekly.

Solubility Information

Solubility	DMSO: 50 mg/mL (126.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.07 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one.</i>

In vivo Formulation	<i>Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5347 mL	12.6733 mL	25.3466 mL
5 mM	0.5069 mL	2.5347 mL	5.0693 mL
10 mM	0.2535 mL	1.2673 mL	2.5347 mL
50 mM	0.0507 mL	0.2535 mL	0.5069 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

- Xiao H, et al. A Novel Positive Feedback Loop Between NTSR1 and Wnt/ β -Catenin Contributes to Tumor Growth of Glioblastoma. *Cell Physiol Biochem*. 2017 Oct 24;43(5):2133-2142.
- Wang J, Gong L, Zhang W, et al. Wnt/ β -catenin signaling pathway inhibits porcine reproductive and respiratory syndrome virus replication by enhancing the nuclear factor- κ B-dependent innate immune response. *Veterinary Microbiology*. 2020: 108904.
- Chatterjee SS, et al. Inhibition of β -catenin-TCF1 interaction delays differentiation of mouse embryonic stem cells. *J Cell Biol*. 2015 Oct 12;211(1):39-51.
- Sharma A, et al. Mitigation of sepsis-induced inflammatory responses and organ injury through targeting Wnt/ β -catenin signaling. doi: 10.1038/s41598-2017-08711-6.
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