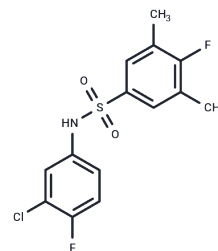


TAC

Chemical Properties

CAS No. : 666699-46-3
 Formula: C₁₄H₁₂ClF₂NO₂S
 Molecular Weight: 331.77
 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	TAC (TERT activator compound) is a TERT (telomerase reverse transcriptase) activator that enhances TERT transcriptional activity through the MEK/ERK/AP-1 cascade pathway, promotes telomere synthesis in primary human cells and naturally aged mice, reduces cellular senescence and inflammatory cytokines, and alleviates neuroinflammation, among other effects.
Targets(IC50)	ERK,MEK,DNA/RNA Synthesis,Telomerase

Solubility Information

Solubility	DMSO: 80 mg/mL (241.13 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: 3.3 mg/mL (9.95 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. 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>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0141 mL	15.0707 mL	30.1414 mL
5 mM	0.6028 mL	3.0141 mL	6.0283 mL
10 mM	0.3014 mL	1.5071 mL	3.0141 mL
50 mM	0.0603 mL	0.3014 mL	0.6028 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

Yokosuka A, et, al. Steroidal and pregnane glycosides from the rhizomes of *Tacca chantrieri*. *J Nat Prod.* 2002 Sep; 65(9):1293-8.

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