MCE MedChemExpress

Product Data Sheet

ACA-28

Cat. No.: HY-147855 **CAS No.:** 948044-25-5

Molecular Formula: $C_{17}H_{16}O_6$ Molecular Weight: 316.31

Target: ERK; Apoptosis

Pathway: MAPK/ERK Pathway; Stem Cell/Wnt; Apoptosis

Storage: Powder -20°C 3 years

In solvent

4°C 2 years -80°C 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (316.15 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.1615 mL	15.8073 mL	31.6146 mL
	5 mM	0.6323 mL	3.1615 mL	6.3229 mL
	10 mM	0.3161 mL	1.5807 mL	3.1615 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 (7.90 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.90 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ACA-28 (compound 2a) is a potent ERK MAPK signaling modulator. ACA-28 selectively inhibits cancer cell growth by inducing apoptosis with ERK hyperactivationACA-28 inhibits cell growth of melanoma cells (SK-MEL-28) and normal melanocytes (NHEM), with IC50 values of 5.3 and 10.1 μ M, respectively^[1].

REFERENCES

		e esters as potent and selective a bioorg Chem. 2020 Oct;103:10413		nas bearing the activated ERK pathway:	
Caution: Product has not been fully validated for medical applications. For research use only.					
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Page 2 of 2 www.MedChemExpress.com