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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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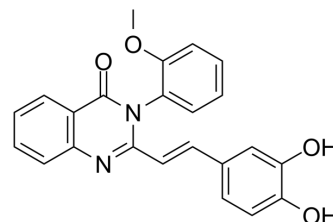
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ICCB280

Cat. No.:	HY-134333
CAS No.:	2041072-41-5
Molecular Formula:	C ₂₃ H ₁₈ N ₂ O ₄
Molecular Weight:	386.4
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (215.66 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.5880 mL	12.9400 mL	25.8799 mL
		5 mM	0.5176 mL	2.5880 mL	5.1760 mL
		10 mM	0.2588 mL	1.2940 mL	2.5880 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: ≥ 2.08 mg/mL (5.38 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.38 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	ICCB280 is a potent inducer of C/EBPα. ICCB280 exhibits anti-leukemic properties including terminal differentiation, proliferation arrest, and apoptosis through activation of C/EBPα and affecting its downstream targets (such as C/EBPε, G-CSFR and c-Myc) ^{[1][2]} .
IC ₅₀ & Target	C/EBPα ^[1]
In Vitro	ICCB280 (0.1-50 μM; 48 h) suppresses the HL-60 cell growth, with an IC₅₀ of 8.6 μM^[1]. ICCB280 (10 μM; 2-8 d) increases the C/EBPα expression (mRNA and protein) and modulates its target genes in HL-60 cells^[1]. ICCB280 (10 μM; 7 d) induces granulocytic differentiation and subsequent apoptosis in HL-60 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay^[1]

Cell Line:	HL-60 cells
Concentration:	0.1, 0.5, 1, 5, 10, 50 μ M
Incubation Time:	48 hours
Result:	Induced cell growth arrest, with an IC ₅₀ of 8.6 μ M.

Western Blot Analysis^[1]

Cell Line:	HL-60 cells
Concentration:	10 μ M
Incubation Time:	2, 4, 6, 8 days
Result:	Upregulated the C/EBP α protein on day 4. Increased the C/EBP ϵ expression on day 6. No changes in C/EBP β expression through the 8 days of the experiment.

REFERENCES

- [1]. Radomska HS, et, al. A Cell-Based High-Throughput Screening for Inducers of Myeloid Differentiation. J Biomol Screen. 2015 Oct;20(9):1150-9.
- [2]. Sridhar R, et, al. Styryl Quinazolinones as Potential Inducers of Myeloid Differentiation via Upregulation of C/EBP α . Molecules. 2018 Aug 3;23(8):1938.

Caution: Product has not been fully validated for medical applications. For research use only.

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