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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

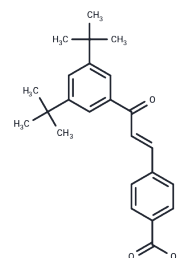
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Ch55

Chemical Properties

CAS No. : 110368-33-7
 Formula: C₂₄H₂₈O₃
 Molecular Weight: 364.48
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Ch55 (3,5-Di-tert-butylchalcone) is an effective inducer of the differentiation of HL60 cells (EC ₅₀ = 200 nM) and shows high affinity with RAR- α and RAR- β receptors. Ch55 can be used in studies about cancer.
Targets(IC ₅₀)	Retinoid Receptor
In vitro	In rabbit tracheal epithelial cells, Ch55 inhibits type I transglutaminase activity (EC ₅₀ = 0.02 nM) and increases cholesterol sulfate levels (EC ₅₀ = 0.03 nM) thereby inhibiting squamous cell differentiation. Ch55 inhibits the induction of ornithine decarboxylase activity in 3T6 fibroblasts (EC ₅₀ = 1 nM) and induces cell differentiation of embryonic carcinoma F9 cells and melanoma S91 cells (EC ₅₀ = 0.26 and 0.5 nM). Ch55 shows a low affinity for cellular retinoic acid binding protein[1].

Solubility Information

Solubility	DMSO: 40 mg/mL (109.7 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7436 mL	13.7182 mL	27.4363 mL
5 mM	0.5487 mL	2.7436 mL	5.4873 mL
10 mM	0.2744 mL	1.3718 mL	2.7436 mL
50 mM	0.0549 mL	0.2744 mL	0.5487 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.

Reference

Li J, Bai Y, Liu Y, et al. Transcriptome-based chemical screens identify CDK8 as a common barrier in multiple cell reprogramming systems. Cell Reports. 2023, 42(6).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481