SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
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

linkedin.com/company/szaboscandic

Cearoin

Cat. No.: HY-N8418

CAS No.: 52811-37-7

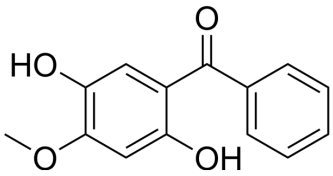
Molecular Formula: $C_{14}H_{12}O_4$

Molecular Weight: 244.24

Target: ERK; Autophagy; Apoptosis; Reactive Oxygen Species

Pathway: MAPK/ERK Pathway; Stem Cell/Wnt; Autophagy; Apoptosis; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (204.72 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.0943 mL	20.4717 mL	40.9433 mL
	5 mM	0.8189 mL	4.0943 mL	8.1887 mL
	10 mM	0.4094 mL	2.0472 mL	4.0943 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Cearoin increases autophagy and apoptosis through the production of ROS and the activation of ERK[1].

IC_{50} & Target				
	ERK	ROS	Autophagy	Apoptosis

In Vitro

Cearoin (10-80 μM) induces cell death in a dose-dependent manner[1].
Cearoin (10-80 μM) increases the phosporylation of ERK in SH-SY5Y cells[1].
Cearoin (5-80 μM) increases the conversion of LC3B-I to LC3B-II in SH-SY5Y cells. The expression of LC3B-II is a good marker for autophagosome formation in the autophagy process[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	Human neuroblastoma SH-SY5Y cells
Concentration:	0, 1, 5, 10, 20, 40, or 80 μM
Incubation Time:	6 or 12 hours

Result:	Significantly decreased cell viability from 10 μM in a dose-dependent manner. Treatment with 40 μM for 12 h induced about 50% loss in cell viability in SH-SY5Y cells.

Western Blot Analysis[1]

Cell Line:	Human neuroblastoma SH-SY5Y cells
Concentration:	0, 5, 10, 20, 40, or 80 μM
Incubation Time:	12 hours
Result:	Increased ERK phosphorylation in a dose-dependent manner, whereas it did not alter JNK phosphorylation. Induced the formation of LC3B-II in a dose dependent manner.

REFERENCES

[1]. Tonking Bastola, et al. Cearoin Induces Autophagy, ERK Activation and Apoptosis via ROS Generation in SH-SY5Y Neuroblastoma Cells. Molecules. 2017 Feb 6;22(2):242.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA