



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

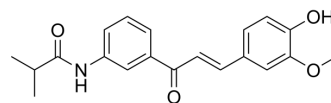
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Curcumin 5-8

Cat. No.:	HY-148598		
CAS No.:	890984-26-6		
Molecular Formula:	C ₂₀ H ₂₁ NO ₄		
Molecular Weight:	339.39		
Target:	Apoptosis; Autophagy		
Pathway:	Apoptosis; Autophagy		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (294.65 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.9465 mL	14.7323 mL	29.4646 mL
	5 mM	0.5893 mL	2.9465 mL	5.8929 mL
	10 mM	0.2946 mL	1.4732 mL	2.9465 mL

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

BIOLOGICAL ACTIVITY

Description

Curcumin 5-8 (CUR5-8) is a potent and orally active naturally active curcumin (CUR) analog. Curcumin 5-8 inhibits lipid droplet formation. Curcumin 5-8 increases [autophagy](#) and inhibits [Apoptosis](#). Curcumin 5-8 improves insulin resistance and insulin sensitivity^[1].

In Vitro

Curcumin 5-8 (20 μM; 24 h) decreases PA (palmitic acid (HY-N0830))-induced SREBP1 expression levels and increases Bcl2/BAX expression in AML12 cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line:	AML12 cells
Concentration:	20 μM
Incubation Time:	24 h
Result:	Significantly decreased PA-induced SREBP1 expression levels, increased Bcl2/BAX

expression.

In Vivo

urcumin 5-8 (100 mg/kg; diet; daily for 13 weeks) ameliorates insulin resistance and hepatic steatosis in mice with HFD (high-fat diet)-induced obesity^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: 6-week-old males, 20 g, C57BL/6 mice^[1]

Dosage: 100 mg/kg

Administration: Diet; daily for 13 weeks

Result: Significantly suppressed the increases in the insulin level and HOMA-IR.

REFERENCES

[1]. Lee ES, et al. Curcumin analog CUR5-8 ameliorates nonalcoholic fatty liver disease in mice with high-fat diet-induced obesity. *Metabolism*. 2020 Feb;103:154015.

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

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