



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

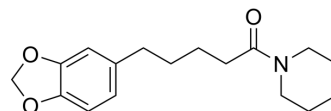
mail@szabo-scandic.com

www.szabo-scandic.com

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

Tetrahydropiperine

Cat. No.:	HY-N4205
CAS No.:	23434-88-0
Molecular Formula:	C ₁₇ H ₂₃ NO ₃
Molecular Weight:	289.37
Target:	Cytochrome P450
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (345.58 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	3.4558 mL	17.2789 mL	34.5578 mL
		5 mM	0.6912 mL	3.4558 mL	6.9116 mL
		10 mM	0.3456 mL	1.7279 mL	3.4558 mL
		Please refer to the solubility information to select the appropriate solvent.			
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.64 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.64 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Tetrahydropiperine, a cyclohexyl analogue of piperine, is the first natural aryl pentanamide from Piper longum ^[1] . Tetrahydropiperine (compound 14) inhibits the cytochrome P450 (CYP) isoform CYP1A1/arylhydrocarbon hydroxylase (AHH; IC ₅₀ =23 μM) ^[2] .
IC ₅₀ & Target	CYP1A1 23 μM (IC ₅₀)

REFERENCES

[1]. Madhusudhan P, et al. Tetrahydropiperine, the first natural aryl pentanamide from Piper longum. Biochem Syst Ecol. 2001 May;29(5):537-538.

[2]. Koul S, et al. Structure-activity relationship of piperine and its synthetic analogues for their inhibitory potentials of rat hepatic microsomal constitutive and inducible cytochromeP450 activities. Bioorg Med Chem. 2000 Jan;8(1):251-68.

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