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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

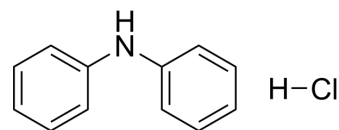
mail@szabo-scandic.com

www.szabo-scandic.com

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

Diphenylamine hydrochloride

Cat. No.:	HY-N7133
CAS No.:	537-67-7
Molecular Formula:	C ₁₂ H ₁₂ ClN
Molecular Weight:	205.68
Target:	Fungal; Bacterial
Pathway:	Anti-infection
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (1215.48 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	4.8619 mL	24.3096 mL	48.6192 mL
		5 mM	0.9724 mL	4.8619 mL	9.7238 mL
	10 mM	0.4862 mL	2.4310 mL	4.8619 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 (10.11 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (10.11 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (10.11 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Diphenylamine is a common structure of nonsteroidal anti-inflammatory drugs (NSAIDs) to uncouple mitochondrial oxidative phosphorylation and to cause a decrease in hepatocellular ATP content and hepatocyte injury. Diphenylamine is used as an industrial antioxidant, dye mordant and is also applied in agriculture as a fungicide and antihelmintic ^{[1][2]} .
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REFERENCES

[1]. Masubuchi Y, et al. Possible mechanism of hepatocyte injury induced by diphenylamine and its structurally related nonsteroidal anti-inflammatory drugs. J Pharmacol Exp Ther. 2000 Mar;292(3):982-7.

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