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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

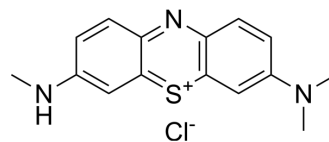
mail@szabo-scandic.com

www.szabo-scandic.com

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

Azure B

Cat. No.:	HY-D0004
CAS No.:	531-55-5
Molecular Formula:	C ₁₅ H ₁₆ ClN ₃ S
Molecular Weight:	305.83
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 10 mg/mL (32.70 mM); ultrasonic and warming and heat to 60°C																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>3.2698 mL</td> <td>16.3490 mL</td> <td>32.6979 mL</td> </tr> <tr> <td>5 mM</td> <td>0.6540 mL</td> <td>3.2698 mL</td> <td>6.5396 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3270 mL</td> <td>1.6349 mL</td> <td>3.2698 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	3.2698 mL	16.3490 mL	32.6979 mL	5 mM	0.6540 mL	3.2698 mL	6.5396 mL	10 mM	0.3270 mL	1.6349 mL	3.2698 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (3.27 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (3.27 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	Azure B is a cationic dye and the major metabolite of Methylene blue. Azure B is used in making Azure eosin stains for blood smear staining. Azure B is a high-potency, selective and reversible inhibitor of monoamine oxidases (MAO)-A, with IC ₅₀ s of 11 and 968 nM for recombinant human MAO-A and MAO-B, respectively. Azure B possesses significant antidepressant-like effects ^{[1][2]} .
In Vivo	Azure B (4-30 mg/kg; i.p.; once) decreases immobility in the forced swim test (FST) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Löhr W, et al. The azure dyes: their purification and physicochemical properties. II. Purification of azure B. Stain Technol. 1975 May;50(3):149-56.

[2]. Delport A, et al. Azure B and a synthetic structural analogue of methylene blue, ethylthioninium chloride, present with antidepressant-like properties. Life Sci. 2014 Nov 11;117(2):56-66.

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