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Lieferung & Zahlungsart

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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

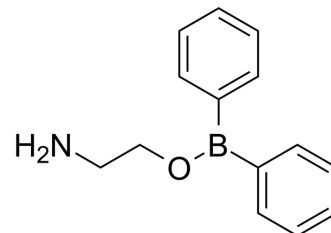
mail@szabo-scandic.com

www.szabo-scandic.com

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

2-Aminoethyl diphenylborinate

Cat. No.:	HY-W009724		
CAS No.:	524-95-8		
Molecular Formula:	C ₁₄ H ₁₆ BNO		
Molecular Weight:	225.09		
Target:	Calcium Channel; TRP Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
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 : 250 mg/mL (1110.67 mM; Need ultrasonic)
H₂O : 1.61 mg/mL (7.15 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.4427 mL	22.2133 mL	44.4267 mL
	5 mM		0.8885 mL	4.4427 mL	8.8853 mL
	10 mM		0.4443 mL	2.2213 mL	4.4427 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 (9.24 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (9.24 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (9.24 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2-Aminoethyl diphenylborinate (2-APB) is a cell-permeable inhibitor of IP3R. 2-Aminoethyl diphenylborinate also inhibits the store-operated Ca²⁺ (SOC) channel and activates some TRP channels (V1, V2 and V3)^{[1][2][3]}.

CUSTOMER VALIDATION

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- Sci Immunol. 2022 Feb 4;7(68):eabk2092.
 - Nat Metab. 2022 Sep 1.
 - Adv Funct Mater. 2019, 1808556.
 - Nat Commun. 2022 Nov 10;13(1):6796.
 - Mol Cell. 2023 Jan 14;S1097-2765(22)01217-5.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Ma S, et al. Effect of Wilforine on the Calcium Signaling Pathway in Mythemna separata Walker Myocytes Using the Calcium Imaging Technique. J Agric Food Chem. 2019 Nov 27.
- [2]. Boyacı MG, et al. Effects of 2-Aminoethyl Diphenylborinate, a Modulator of Transient Receptor Potential and Orai Channels in Subarachnoid Hemorrhage: An Experimental Study.
- [3]. Takahashi K, et al. Molecular mechanism of 2-APB-induced Ca^{2+} influx in external acidification in PC12. Exp Cell Res. 2014 May 1;323(2):337-45.
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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