



SZABO SCANDIC

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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

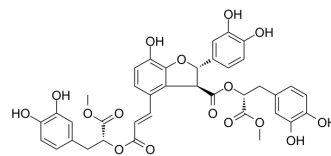
mail@szabo-scandic.com

www.szabo-scandic.com

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

Dimethyl lithospermate B

| | |
|---------------------------|--|
| Cat. No.: | HY-N6868 |
| CAS No.: | 875313-64-7 |
| Molecular Formula: | C ₃₈ H ₃₄ O ₁₆ |
| Molecular Weight: | 746.67 |
| Target: | Sodium Channel |
| Pathway: | Membrane Transporter/Ion Channel |
| Storage: | -20°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 (133.93 mM; Need ultrasonic)

| Concentration | Mass | | | |
|---------------|-----------|-----------|------------|--|
| | 1 mg | 5 mg | 10 mg | |
| 1 mM | 1.3393 mL | 6.6964 mL | 13.3928 mL | |
| 5 mM | 0.2679 mL | 1.3393 mL | 2.6786 mL | |
| 10 mM | 0.1339 mL | 0.6696 mL | 1.3393 mL | |

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

BIOLOGICAL ACTIVITY

Description

Dimethyl lithospermate B (dmLSB) is a selective Na⁺ channel agonist. Dimethyl lithospermate B slows inactivation of sodium current (I_{Na}), leading to increased inward current during the early phases of the action potential (AP)^{[1][2]}.

IC₅₀ & Target

Na⁺ channel^[1]

REFERENCES

[1]. Fish JM, et al. Dimethyl lithospermate B, an extract of Danshen, suppresses arrhythmogenesis associated with the Brugada syndrome. *Circulation*. 2006 Mar 21;113(11):1393-400.

[2]. Yoon JY, et al. A novel Na⁺ channel agonist, dimethyl lithospermate B, slows Na⁺ current inactivation and increases action potential duration in isolated rat ventricular myocytes. *Br J Pharmacol*. 2004 Nov;143(6):765-73.

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