



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

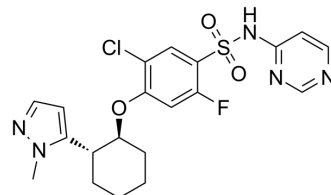
mail@szabo-scandic.com

www.szabo-scandic.com

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

DS-1971a

Cat. No.:	HY-131182
CAS No.:	1450595-86-4
Molecular Formula:	C ₂₀ H ₂₁ ClFN ₅ O ₃ S
Molecular Weight:	465.93
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (214.62 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.1462 mL	10.7312 mL	21.4625 mL
		5 mM	0.4292 mL	2.1462 mL	4.2925 mL
		10 mM	0.2146 mL	1.0731 mL	2.1462 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: ≥ 2.5 mg/mL (5.37 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.37 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.37 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	DS-1971a is a potent, selective, and orally active NaV1.7 inhibitor, with IC ₅₀ s of 22.8 and 59.4 nM for hNaV1.7 and mNaV1.7, respectively. DS-1971a exerts analgesic effects ^[1] .	
IC ₅₀ & Target	hNa _v 1.7 22.8 nM (IC ₅₀)	mNa _v 1.7 59.4 nM (IC ₅₀)
In Vivo	DS-1971a exhibits a favorable toxicological profile ^[1] .	

DS-1971a (0.1-1 mg/kg; p.o.) shows mitigated thermal hyperalgesia in a dose-dependent manner in partial sciatic nerve ligation (PSL) mice^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Slc:ddY mice (PSL model) ^[1]
Dosage:	0.1, 0.3, and 1 mg/kg
Administration:	P.o.
Result:	A significant dose-dependent suppression of thermal hyperalgesia in 0.3 and 1 mg/kg administered groups. The ED ₅₀ of DS-1971a at the peak efficacy was 0.32 mg/kg.

REFERENCES

[1]. Shinozuka T, et al. Discovery of DS-1971a, a Potent, Selective Nav1.7 Inhibitor [published online ahead of print, 2020 May 26]. J Med Chem. 2020;10.1021/acs.jmedchem.0c00259.

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