



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

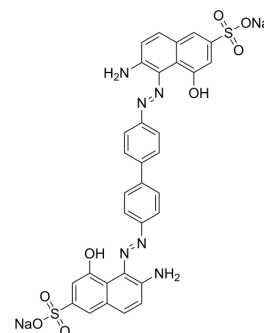
mail@szabo-scandic.com

www.szabo-scandic.com

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

Direct Violet 1

Cat. No.:	HY-D1270
CAS No.:	2586-60-9
Molecular Formula:	C ₃₂ H ₂₂ N ₆ Na ₂ O ₈ S ₂
Molecular Weight:	728.66
Target:	SARS-CoV
Pathway:	Anti-infection
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

H₂O : 62.5 mg/mL (85.77 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.3724 mL	6.8619 mL	13.7238 mL
	5 mM	0.2745 mL	1.3724 mL	2.7448 mL
	10 mM	0.1372 mL	0.6862 mL	1.3724 mL

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

BIOLOGICAL ACTIVITY

Description

Direct Violet 1, an azo dye, is a textile dye. Direct Violet 1 is also the protein-protein interaction (PPI) between the SARS-CoV-2 spike protein and ACE2 inhibitor with IC₅₀s of 1.47-2.63 μM^{[1][2]}.

IC₅₀ & Target

IC₅₀: 1.47 μM (SARS-CoV-2-S-RBD binding to ACE2); 2.63 μM (SARS-CoV-S1S2 binding to ACE2); 2.11 μM (TNF-R1-TNFα binding)^[1]

In Vitro

Direct Violet 1 inhibits SARS-CoV-2-S-RBD binding to human ACE2, inhibits SARS-CoV-S1S2 binding to ACE2, and inhibits TNF-R1 binding to TNFα with IC₅₀ values of 1.47 μM, 2.63 μM, and 2.11 μM, respectively^[1].
Direct Violet 1 inhibits SARS-CoV-2 pseudovirus entry into hACE2 expressing host cells in a concentration-dependent manner with an IC₅₀ of 35.8 μM^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Damir Bojadzic, et al. Small-Molecule In Vitro Inhibitors of the Coronavirus Spike-ACE2 Protein-Protein Interaction as Blockers of Viral Attachment and Entry for SARS-

[2]. Wafaa M Abd El-Rahim, et al. Genotoxicity studies on the removal of a direct textile dye by a fungal strain, in vivo, using micronucleus and RAPD-PCR techniques on male rats. J Appl Toxicol. 2008 May;28(4):484-90.

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