



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

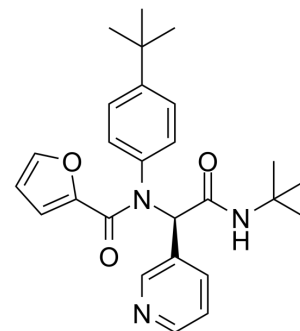
mail@szabo-scandic.com

www.szabo-scandic.com

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

ML188

Cat. No.:	HY-136259
CAS No.:	1417700-13-0
Molecular Formula:	C ₂₆ H ₃₁ N ₃ O ₃
Molecular Weight:	433.54
Target:	SARS-CoV; Virus Protease
Pathway:	Anti-infection
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 (576.65 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.3066 mL	11.5330 mL	23.0659 mL
		5 mM		0.4613 mL	2.3066 mL	4.6132 mL
		10 mM		0.2307 mL	1.1533 mL	2.3066 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: ≥ 6.25 mg/mL (14.42 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.25 mg/mL (14.42 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (14.42 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	ML188, a first in class probe, is a selective non-covalent SARS-CoV 3CLpro inhibitor with an IC ₅₀ of 1.5 μM. Antiviral activity ^[1] .
In Vitro	ML188 (0-30 μM; 48 hours) effectively inhibit SARS-CoV replication in cell culture^[1]. Probe ML188 is a modest molecular weight SARS-CoV 3CLpro inhibitor with demonstrated antiviral activity and a non-covalent mechanism of action. ML188 yields an antiviral EC₅₀ value ranging from 12.9 to 13.4 μM in mock-infected and SARS-CoV infected cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	Vero E6 cells (mock-infected or infected with SARS-CoV)
Concentration:	3, 4, 5, 8, 10, 15, 20, 30 μ M
Incubation Time:	48 hour
Result:	Against mock-infected and SARS-CoV infected cells.

CUSTOMER VALIDATION

- Nucleic Acids Res. 2021 Jan 8;49(D1):D1113-D1121.
- Sci Rep. 2021 Mar 8;11(1):5433.
- Viruses. 2021 Jan 25;13(2):174.
- bioRxiv. 2020 Jul.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Jacobs J, et al. Discovery, synthesis, and structure-based optimization of a series of N-(tert-butyl)-2-(N-arylamido)-2-(pyridin-3-yl) acetamides (ML188) as potent noncovalent small molecule inhibitors of the severe acute respiratory syndrome coronavirus (SARS-CoV) 3CL protease. J Med Chem. 2013 Jan 24;56(2):534-46.

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