



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 Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

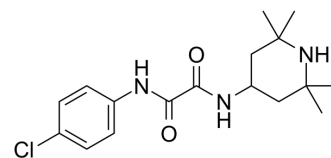
mail@szabo-scandic.com

www.szabo-scandic.com

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

NBD-556

Cat. No.:	HY-76648
CAS No.:	333353-44-9
Molecular Formula:	C ₁₇ H ₂₄ ClN ₃ O ₂
Molecular Weight:	337.84
Target:	HIV
Pathway:	Anti-infection
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 : 33.33 mg/mL (98.66 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	2.9600 mL	14.7999 mL	29.5998 mL	
		5 mM	0.5920 mL	2.9600 mL	5.9200 mL	
		10 mM	0.2960 mL	1.4800 mL	2.9600 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (7.40 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	NBD-556, a CD4 mimetic, is a potent HIV-1 entry inhibitor that blocks the gp120-CD4 interaction. NBD-556 shows potent cell fusion and virus-cell fusion inhibitory activity at low micromolar levels ^{[1][2]} .
In Vitro	NBD-556 (1-100 μM) inhibits HIV-1 envelope-mediated virus-cell and cell-cell fusion ^[1] . NBD-556 inhibits the infection of MT-2 cells by laboratory-adapted HIV-1 IIB, MN, and V32 strains, with IC ₅₀ s of 6.5, 15.9, and 5.3 μM, respectively ^[1] . NBD-556 (1-100 μM) inhibits the CD4-dependent virus in a dose-dependent manner with an IC ₅₀ of 22.6 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Schon A, et al. Thermodynamics of binding of a low-molecular-weight CD4 mimetic to HIV-1 gp120. *Biochemistry*. 2006 Sep 12;45(36):10973-10980.

[2]. Zhao Q, Ma L, Jiang S, Lu H, Liu S, He Y, Strick N, Neamati N, Debnath AK. Identification of N-phenyl-N'-(2,2,6,6-tetramethyl-piperidin-4-yl)-oxalamides as a new class of HIV-1 entry inhibitors that prevent gp120 binding to CD4. *Virology*. 2005 Sep 1;339

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