NBD-556

Cat. No.:	HY-76648			
CAS No.:	333353-44-9	Э		
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

Preparing Stock Solutions	Solvent Mass Concentration	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 so	lubility information to select the ap	propriate solvent.		
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	Stock Solutions Please refer to the so	Solvent Preparing 1 mM Stock Solutions 5 mM 10 mM Please refer to the solubility information to select the approximation to sel	Solvent 1 mg Preparing 1 mM Stock Solutions 5 mM 0.5920 mL	Solvent 1 mg 5 mg Preparing 1 mM 2.9600 mL 14.7999 mL Stock Solutions 5 mM 0.5920 mL 2.9600 mL 10 mM 0.2960 mL 1.4800 mL

BIOLOGICAL ACTIVITY				
DIOLOGICAL ACTIN				
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 IIIB, 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

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[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.

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