

VEC-5

Chemical Properties

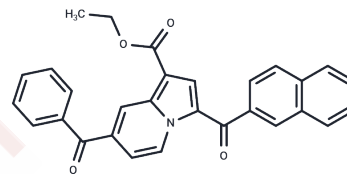
CAS No. : 374679-27-3

Formula: C₂₉H₂₁N₃O₄

Molecular Weight: 447.48

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	VEC-5 is a HIV-1 inhibitor. VEC5 have been evaluated for their inhibitory potential employing ligand receptor and protein-protein interactions studies. VEC-5 exhibited better interaction with Vif than RN18.
Targets(IC50)	Others,HIV Protease

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2347 mL	11.1737 mL	22.3474 mL
5 mM	0.4469 mL	2.2347 mL	4.4695 mL
10 mM	0.2235 mL	1.1174 mL	2.2347 mL
50 mM	0.0447 mL	0.2235 mL	0.4469 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sinha C, Nischal A, Bandaru S, Kasera P, Rajput A, Nayarisseri A, Khattri S. An in silico approach for identification of novel inhibitors as a potential therapeutics targeting HIV-1 viral infectivity factor. *Curr Top Med Chem*. 2015;15(1): 65-72. PubMed PMID: 25579575.

Sinha C, Nischal A, Pant KK, Bandaru S, Nayarisseri A, Khattri S. Molecular docking analysis of RN18 and VEC5 in A3G-Vif inhibition. *Bioinformation*. 2014 Oct 30;10(10):611-6. doi: 10.6026/97320630010611. eCollection 2014. PubMed PMID: 25489169; PubMed Central PMCID: PMC4248342.

Zuo T, Liu D, Lv W, Wang X, Wang J, Lv M, Huang W, Wu J, Zhang H, Jin H, Zhang L, Kong W, Yu X. Small-molecule inhibition of human immunodeficiency virus type 1 replication by targeting the interaction between Vif and ElonginC. *J Virol*. 2012 May;86(10):5497-507. doi: 10.1128/JVI.06957-11. Epub 2012 Feb 29. PubMed PMID: 22379088; PubMed Central PMCID: PMC3347289.

Huang W, Zuo T, Luo X, Jin H, Liu Z, Yang Z, Yu X, Zhang L, Zhang L. Indolizine derivatives as HIV-1 VIF-ElonginC interaction inhibitors. *Chem Biol Drug Des*. 2013 Jun;81(6):730-41. doi: 10.1111/cbdd.12119. PubMed PMID: 23405965.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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