

Product Data Sheet

Product Name: PF-3450074

Cat. No.: GC39664

Chemical Properties

Cas. No. 1352879-65-2

SMILES O=C(N[C@@H](CC1=CC=CC=C1)C(N(C)C2=CC=CC=C2)=O)CC3=C(C)NC4=C3C=C
C=C4

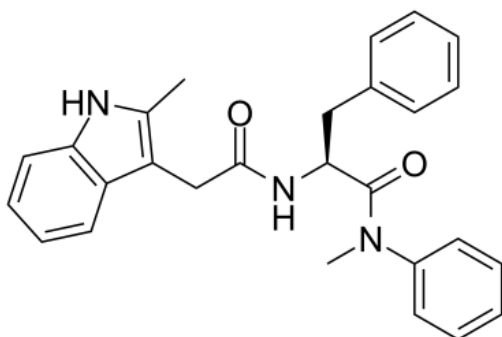
Formula $C_{27}H_{27}N_3O_2$ M.Wt 425.52

Solubility DMSO: 250 mg/mL (587.52 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

PF-3450074 (PF-74) is a specific inhibitor of HIV-1 capsid protein (CA) and displays a broad-spectrum inhibition of HIV isolates with submicromolar potency ($EC_{50}=8-640$ nM). PF-3450074 (PF-74) acts at an early stage of HIV-1 infection, inhibits viral replication by directly competing with the binding of CPSF6 and NUP153, and blocks the uncoating, assembly, and the reverse transcription steps of the viral life cycle[1][2]. CPSF6: nuclear host factors cleavage and polyadenylation specific factor 6; NUP153: nucleoporin 153.

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Xu JP, et al. Exploring Modifications of an HIV-1 Capsid Inhibitor: Design, Synthesis, and Mechanism of Action. *J Drug Des Res.* 2018;5(2). pii: 1070. Epub 2018 Aug 13. [2]. Shi J, et al. Small-molecule inhibition of human immunodeficiency virus type 1 infection by virus capsid destabilization. *J Virol.* 2011 Jan;85(1):542-9.

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