

Product Data Sheet

Product Name: D77
Cat. No.: GC33982

Chemical Properties

Cas. No. 497836-10-9

SMILES O=C(O)C1=CC=C(COC2=CC(Br)=C(/C=C(SC(N3CC(C4=CC=CC=C4)=O)=O)/C3=O)C=C2OCC)C=C1

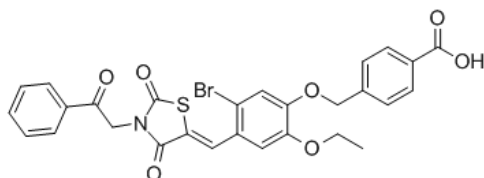
Formula $C_{28}H_{22}BrNO_7S$ M.Wt 596.45

Solubility Soluble in DMSO 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

D77 is anti-HIV-1 inhibitor targeting the interaction between integrase and cellular LEDGF/p75. D77 inhibits HIV-1(IIIB) replication by EC₅₀ value of 23.8 µg/ml in MT-4 cell (5.03 µg/ml for C8166 cells). IC₅₀ value: 23.8 µg/ml (EC₅₀, in MT-4 cell), 5.03 µg/ml (EC₅₀, in C8166 cell). Target: HIV-1 in vitro: D77 exhibits a highly specific binding affinity to HIV-1 integrase catalytic core domain. D77 induces a dramatic concentration-dependent decrease of α-galactosidase activity compared to the D77-untreated cells. D77 reveals a significant inhibition activity against the interaction of IN with IBD.

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

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[1]. Du L, et al. D77, one benzoic acid derivative, functions as a novel anti-HIV-1 inhibitor targeting the interaction between integrase and cellular LEDGF/p75. Biochem Biophys Res Commun. 2008 Oct 10;375(1):139-144.

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