

Product Data Sheet

Product Name: Cobicistat-d8

Cat. No.: GC47112

Chemical Properties

Cas. No. 2699607-48-0

SMILES O=C([C@H](CCN1C([2H])([2H])C([2H])([2H])OC([2H])([2H])C1([2H])([2H])NC(N(C)CC2=CSC(C(C)C)=N2)=O)N[C@H](CC[C@@H](NC(OCC3=CN=CS3)=O)CC4=CC=CC=C4)CC5=CC=CC=C5

Formula C40H45D8N7O5S2

M.Wt 784.1

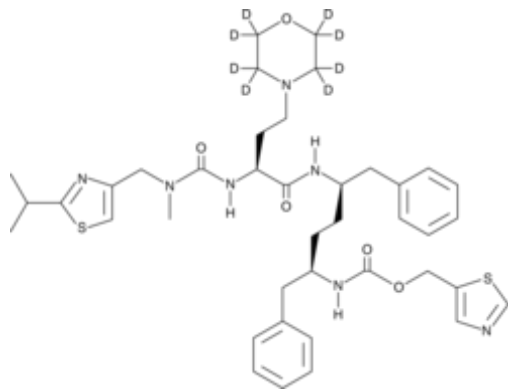
Solubility DMF: 20 mg/ml, DMSO: 20 mg/ml, Ethanol: 10 mg/ml

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

Cobicistat-d8 is intended for use as an internal standard for the quantification of cobicistat by GC- or LC-MS. Cobicistat is an inhibitor of the cytochrome P450 (CYP) isomer CYP3A (IC_{50} s = 30-285 nM for CYP3A metabolism of various HIV protease inhibitors).¹ It is selective for CYP3A over other CYP isomers (IC_{50} = >25 μ M for CYP1A2, 2C8, 2C9, and 2C19). Cobicistat does not inhibit HIV-1 protease (IC_{50} = >30 μ M) or affect HIV replication in MT-2 cells (EC_{50} = >30 μ M). Formulations

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

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containing cobicistat have been used to slow the metabolism of concomitantly administered protease inhibitors in the treatment of HIV.²

1.Xu, L., Liu, H., Murray, B.P., et al.Cobicistat (GS-9350): A potent and selective inhibitor of human CYP3A as a novel pharmacoenhancerACS Med. Chem. Lett.1(5)209-213(2010) 2.Harris, M., Ganase, B., Watson, B., et al.HIV treatment simplification to elvitegravir/cobicistat/emtricitabine/tenofovir disoproxil fumarate (E/C/F/TDF) plus darunavir: A pharmacokinetic studyAIDS Res. Ther.14(1)59(2017)

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