

Product Data Sheet

Product Name: Bosutinib-d8

Cat. No.: GC40080

Chemical Properties

Cas. No. 2733145-45-2

SMILES CN1C([2H])([2H])C([2H])([2H])N(CCCOC2=C(OC)C=C(C(NC3=CC(OC)=C(Cl)C=C3Cl)=C(C#N)C=N4)C4=C2)C([2H])([2H])C1([2H])[2H]

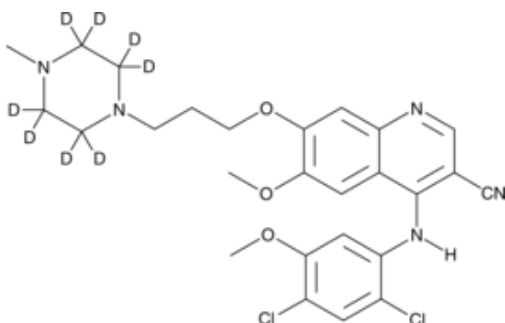
Formula C₂₆H₂₁Cl₂D₈N₅O₃ M.Wt 538.5

Solubility DMSO: Slightly Soluble, Methanol: Slightly Soluble 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

Bosutinib-d8 is intended for use as an internal standard for the quantification of bosutinib by GC- or LC-MS. Bosutinib is an inhibitor of c-Src and Abl kinases (IC₅₀s = 1.2 and 1 nM, respectively). It also inhibits the kinases EPHB2, TrkA, TrkB, and TXK (IC₅₀s = 8.5, 22, 27, and 40 nM, respectively) among others. Bosutinib inhibits Src-dependent cell proliferation (IC₅₀ = 100 nM) and reverses Src-transformed fibroblasts to a non-transformed morphology when used at a concentration of 1 μM. It reduces tumor growth in unstaged and staged Src-transformed fibroblast mouse xenograft models when administered at doses of 30 or 25 mg/kg, respectively, twice per day. Bosutinib (100 mg/kg) also induces complete tumor regression in a K562 mouse xenograft model when administered once per day for five days.

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

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