
Product Data Sheet

Product Name: Imatinib D4

Cat. No.: GC60930

Chemical Properties

Cas. No. 1134803-16-9

SMILES O=C(NC1=CC=C(C)C(NC2=NC=CC(C3=CC=CN=C3)=N2)=C1)C4=C([2H])C([2H])=C(CN5CCN(C)CC5)C([2H])=C4[2H]Formula C₂₉H₂₇D₄N₇O

M.Wt

497.63

Solubility

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

Imatinib D4 (STI571 D4) is a deuterium labeled Imatinib (STI571). Imatinib is an orally bioavailable tyrosine kinases inhibitor that selectively inhibits BCR/ABL, v-Abl, PDGFR and c-kit kinase activity[1][2].

[1]. Heinrich MC, et al. Inhibition of c-kit receptor tyrosine kinase activity by STI 571, a selective tyrosine kinase inhibitor. Blood. 2000 Aug 1;96(3):925-32. [2]. Guida T, et al. Sorafenib inhibits imatinib-resistant KIT and platelet-derived growth factor receptor beta gatekeeper mutants. Clin Cancer Res. 2007 Jun 1;13(11):3363-9. [3]. Coleman CM, et al, Frieman MB. Abelson Kinase Inhibitors Are Potent Inhibitors of Severe Acute Respiratory Syndrome Coronavirus and Middle East Respiratory Syndrome Coronavirus Fusion. J Virol. 2016;90(19):8924-8933. Published 2016 Sep 12.

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

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