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## Product Data Sheet

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Product Name: Imatinib D8

Cat. No.: GC39612

### Chemical Properties

Cas. No. 1092942-82-9

SMILES O=C(NC1=CC=C(C)C(NC2=NC=CC(C3=CC=CN=C3)=N2)=C1)C4=CC=C(CN5C([2H])([2H])C([2H])([2H])N(C)C([2H])([2H])C5([2H])[2H])C=C4

Formula C<sub>29</sub>H<sub>23</sub>D<sub>8</sub>N<sub>7</sub>O

M.Wt

501.65

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

Imatinib D8 (STI571 D8) 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.

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

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