Product Data Sheet

Product Name: Imatinib Mesylate

CAS No.: 220127-57-1
Cat. No.: HY-50946
MWt: 589.71
Formula: C₃₀H₃₅N₇O₄S
Purity: >98%

Solubility: DMSO ≥ 116mg/mL Water ≥ 116mg/mL Ethanol ≥ 2.6mg/mL

Mechanisms: Pathways: Protein Tyrosine Kinase/RTK; Target: c-Kit
Pathways: Protein Tyrosine Kinase/RTK; Target: PDGFR

Biological Activity:
Imatinib(STI571) is a multi-target inhibitor of v-Abl, c-Kit and PDGFR with IC₅₀ of 0.6 μM, 0.1 μM and 0.1 μM, respectively.

IC₅₀ Value: 100 nM (PDGFR) [1]; 100 nM (c-Kit) [2]
Target: v-Abl; c-Kit; PDGFR

in vitro: In vitro assays for inhibition of a panel of tyrosine and serine/threonine protein kinases show that Imatinib inhibits the v-Abl tyrosine kinase and PDGFR potently with an IC₅₀ of 0.6 and 0.1 μM, respectively [1]. Imatinib inhibits the SLF-dependent activation of wild-type c-kit kinase activity with a IC₅₀ for these effects of approximately 0.1 μM, which is similar to the concentration required for inhibition of PDGFR [2]. Imatinib exhibits growth-inhibitory activity on the human bronchial carcinoid cell line NCI-H727 and the human pancreatic carcinoid cell line BON-1 with an IC₅₀ of 32.4 and 32.8 μM, respectively [3].
in vivo: In the PS-ASODN group, tum...

References:

Caution: Not fully tested. For research purposes only

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