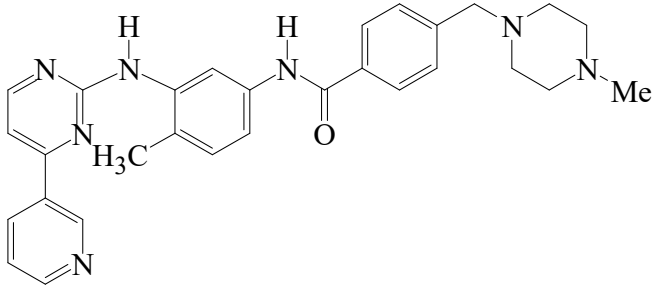




>>Entry Name: Imatinib, INN

Synonym(s): 4-[(4-Methyl-1-piperazinyl)methyl]-N-[4-methyl-3-[[4-(3-pyridinyl)-2-pyrimidinyl]amino]phenyl]benzamide, 9Cl. CGP 57148. STI 571



CAS Registry Number: 152459-95-5

Molecular Formula: C₂₉H₃₁N₇O

Molecular Weight: 493.61

Accurate Mass: 493.259008

Percentage Composition: C 70.57%; H 6.33%; N 19.86%; O 3.24%

Biological Use/Importance: Tyrosine kinase inhibitor. Antineoplastic agent

Melting Point: Mp 211-213°

References:

- Eur. Pat.*, 1993, *Ciba-Geigy*, 564 409; *CA*, **120**, 107056w, (*synth, pharmacol*)
Buchdunger, E. *et al.*, *Cancer Res.*, 1996, **56**, 100-104, (*pharmacol*)
Deininger, M.W.N. *et al.*, *Blood*, 1997, **90**, 3691-3698, (*pharmacol*)
Deininger, M.W. *et al.*, *Cancer Res.*, 2000, **60**, 2049-2055, (*pharmacol*)
O'Dwyer, M.E. *et al.*, *Curr. Opin. Oncol.*, 2000, **12**, 594-597, (*rev*)
Lyseng-Williamson, K. *et al.*, *Drugs*, 2001, **61**, 1765-1774, (*rev*)