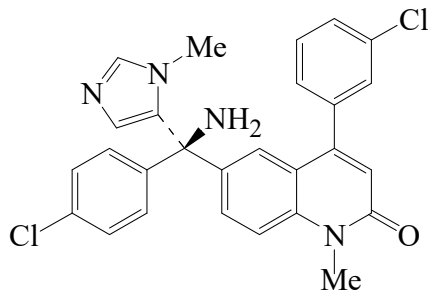




>>Entry Name: Tipifarnib, INN

Synonym(s): 6-[Amino(4-chlorophenyl)(1-methyl-1*H*-imidazol-5-yl)methyl]-4-(3-chlorophenyl)-1-methyl-2(1*H*)-quinolone, 9Cl. R 11 5 777



CAS Registry Number: 192185-68-5

Related CAS Registry Numbers(s): 192185-69-6 192185-70-9 192185-71-0

Molecular Formula: C₂₇H₂₂Cl₂N₄O

Molecular Weight: 489.402

Accurate Mass: 488.117065

Percentage Composition: C 66.26%; H 4.53%; Cl 14.49%; N 11.45%; O 3.27%

Biological Use/Importance: Farnesyl protein transferase inhibitor. Antineoplastic agent

>>Variant: (*R*)-form

CAS Registry Number: 192185-72-1

Molecular Formula: C₂₇H₂₂Cl₂N₄O

Molecular Weight: 489.402

Accurate Mass: 488.117065

Percentage Composition: C 66.26%; H 4.53%; Cl 14.49%; N 11.45%; O 3.27%

Optical Rotation: $[\alpha]_{\text{D}}^{20} +22.86$ (c, 0.98 in MeOH)

Other Data: Pharmacol. active isomer

>>Variant: ($\pm$)-form

Molecular Formula: C₂₇H₂₂Cl₂N₄O

Molecular Weight: 489.402

Accurate Mass: 488.117065

Percentage Composition: C 66.26%; H 4.53%; Cl 14.49%; N 11.45%; O 3.27%

Melting Point: Mp 220°

References:

Pat. Coop. Treaty (WIPO), 1997, *Janssen*, 97 21 701; *CA*, **127**, 95280u, (*synth, isomers, pharmacol*)

Zujewski, J. *et al.*, *J. Clin. Oncol.*, 2000, **18**, 927-941, (*phase I trial, pharmacokinet*)

End, D.W. *et al.*, *Cancer Res.*, 2001, **61**, 131-137, (*activity*)