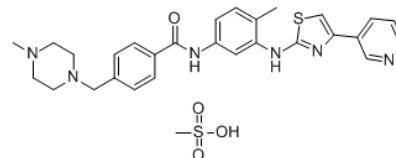


Product Name : Masitinib mesylate
Cat. No. : PC-42455
CAS No. : 1048007-93-7
Molecular Formula : C₂₉H₃₄N₆O₄S₂
Molecular Weight : 594.748
Target : c-Kit
Solubility : DMSO: ≥ 30 mg/mL



Biological Activity

Masitinib (AB-1010) mesylate is a potent tyrosine kinase inhibitor targeting **c-Kit** and **PDGFR** with IC₅₀ of 0.15 and 0.05 μM in cell based assays.

Masitinib (AB-1010) also inhibits Lyn, and to a lesser extent, FGFR3, and inhibits KIT gain-of-function mutants V559D (IC₅₀=3.0 nM) and Δ27 mouse mutant (IC₅₀=5 nM).

Masitinib (AB-1010) dose-dependently inhibits SCF-induced cell proliferation in Ba/F3 cells expressing human wild-type KIT (IC₅₀=150 nM); inhibits tumour growth in vivo.

References

Dubreuil P, et al. *PLoS One*. 2009 Sep 30;4(9):e7258.

Humbert M, et al. *Allergy*. 2009 Aug;64(8):1194-201.

Tebib J, et al. *Arthritis Res Ther*. 2009;11(3):R95.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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